

EPA CONTRACT 68-W-00-113

Weston Solutions, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-225-6116 • Fax 732-225-7037
www.westonsolutions.com

211046

RST-02-F-01371



TRANSMITTAL MEMO

To:

Eric Wilson

Removal Action Branch,

U.S. EPA Region II

From:

Jeralyn Guthrie, Data Reviewer

RST Region II

Subject:

Cornell Dubilier Electronics Site

Data Validation Assessment

Date:

February 16, 2004

The purpose of this memo is to transmit the following information:

• Data validation results for the following parameters:

PCBs

44 samples

• Matrices and Number of Samples

Soil

44 samples

Sampling date:

December 02, 2003

The final data assessment narrative and original analytical data package are attached.

cc:

RST PM:

Dean Maser

RST SITE FILE TDD #:

02-03-11-0018

ANALYTICAL TDD #:

02-03-12-0006

PCS#

4229

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE:	February	9, 2004			
TO:	<u>Eric Wilso</u> USEPA Ro				
FROM:	<u>Jeralyn G</u> RST Data	uthrie Review Tean	n	·	·
SUBJECT:	QA/QC Co	ompliance Re	eview Summary	y	
examined and c	uality control and compared to EPA uated as applicable	standards for			
\$	Data Completenes Spectra Matching Surrogate Spikes Matrix Spikes/Dup	Quality	Blanks DFTPP an Chromatog Holding T		
	Calibration	p.1.001.05		ID (HSL, TIC	C)
	Calibration neasures used to s		Compound	I ID (HSL, TIC	
Any statistical n	Calibration neasures used to s		Compound	I ID (HSL, TIC	
Any statistical n	Calibration measures used to set by others.		Compound	I ID (HSL, TIC	
Any statistical n may be reviewe	Calibration measures used to sed by others. The of Results the sed to sed by others. The of Results the others the sed to sed	upport the foll	Compound conclusions	I ID (HSL, TIC	d so that the revie
Any statistical n may be reviewe Summar Acceptable as S Acceptable with Unacceptable, A	Calibration measures used to seed by others. The of Results Submitted The Comments Action Pending	upport the foll I PCB	Compound lowing conclusion II	I ID (HSL, TIC	IV

NARRATIVE

CASE No. <u>3154</u>

SITE NAME:	Cornell Dubilier Electroni	cs Site	<u> </u>
	No. 126 Spicer Avenue, Sc	outh Plainfield	d, New Jersey
Laboratory Name:	Accutest Laboratories, 2235	Route 130,	Dayton, New Jersey 08810.
INTRODUCTION:			
The laboratory's port December 02, 2003.	ion of this Case consisted of	twenty-four	(44) soil samples collected on
The laboratory reporte	ed no problem(s) with the red	ceipt of these	samples.
The laboratory reporte	ed a Minor problem with the	analyses of	PCB parameters.
have been assessed, b were adequately perfo on the following form Appropriate Form I's	ut no discussion is given whermed or require no comment.	ere the evalua Details relev een copied fro	h fraction heading. All criteria tor has determined that criteria ant to these comments are given m the original data package and
11			
I. <u>Pesticides/PCF</u>	<u>3:</u>	·	
	nt Performance Recovery ad ID	Y Blanks Y Retention Y Analytic	on Time Window cal Sequence ck for TCS and DCB

Comments:

1. Refer to Data Assessment Narrative.

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE # RFP#4229 SDG # N54554

LAB: <u>Accutest Laboratories</u>

SITE: Cornell Dubilier Electronics Site

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all OC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's

Signature:

Date: 02/09/2004

Verified By:

CLP DATA ASSESSMENT

Client identification (ID) and laboratory ID numbers:

Client ID No.	Laboratory ID No.	<u>Matrix</u>
CDFF52A	N54554-1	Soil
CDFF49A	N54554-2	Soil
CDFF59A	N54554-3	Soil
CDFF60A	N54554-4	Soil
CDFF45A	N54554-5	Soil
CDFF44A	N54554-6	Soil
CDFF58A1**	N54554-7	Soil
CDFF46A	N54554-8	Soil
CDFF63A	N54554-9	Soil
CDFF53A	N54554-10	Soil
CDFF43A	N54554-11	Soil
CDFF47A	N54554-12	Soil
CDFF58A	N54554-13	Soil
CDFF53A1***	N54554-14	Soil
CDFF50A	N54554-15	Soil
CDFF51A	N54554-16	Soil
CDFF62A	N54554-17	Soil
CDFF61A	N54554-18	Soil
CDFF67C	N54554-19	Soil
CDFF57A	N54554-20	Soil
CDFF67D*	N54554-21	Soil
CDFF67B	N54554-22	Soil
CDFF41A*	N54554-23	Soil
CDFF64A	N54554-24	Soil
CDFF56A	N54554-25	Soil
CDFF48A*	N54554-26	Soil
CDFF54A	N54554-27	Soil
CDFF55A	N54554-28	Soil
CDFF66D	N54554-29	Soil
CDFF66C	N54554-30	Soil
CDFF66B	N54554-31	Soil
CDFF40A1****	N54554-32	Soil

^{*} Samples also collected for MS/MSD.

^{**} Sample CDFF58A1 is the Field Duplicate of Sample CDFF58A

^{***} Sample CDFF53A1 is the Field Duplicate of Sample CDFF53A

^{****} Sample CDFF40A1 is the Field Duplicate of Sample CDFF40A

Client identification (ID) and laboratory ID numbers (continued):

Client ID No.	Laboratory ID No.	Matrix
CDFF40A	N54554-33	Soil
CDFF42A	N54554-34	Soil
CDFF33A	N54554-35	Soil
CDFF34A	N54454-36	Soil
CDFF37A	N54554-37	Soil
CDFF36A	N54554-38	Soil
CDFF35A	N54554-39	Soil
CDFF65D	N54554-40	Soil
CDFF39A	N54554-41	Soil
CDFF38A	N54554-42	Soil
CDFF65C	N54554-43	Soil
CDFF65B	N54554-44	Soil

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

TCL Data

<u>PCBs</u> - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

Sample ID Matrix Date Sampled Date Extracted VTSR at Lab Date Analyzed Qualifier #Compounds

Data met QC criteria.

Note: Continuous extraction of water samples must be started within seven (7) days of the date of collection. Soil/Sediment/Solid samples must be extracted within ten (10) days of collection. Extracts must be analyzed within forty (40) days of extraction.

2. BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method Blank Contamination

<u>PCBs</u> - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

Compound

Associated Samples

Data met QC criteria.

revised 2/12/92

B) Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

<u>PCBs</u> - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

Compound

Associated Samples

No field blanks were included with these analyses.

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

No mass spectrometric determinations were required for these sample analyses.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

A) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

<u>PCBs</u> - The following compounds were qualified as estimated "J" or rejected "R" in the associated samples because the linearity criteria or the percent relative standard deviation (%RSD) of the Initial Calibration is > 20% for either one or both GC columns:

<u>Compound</u> <u>Percent Recovery</u> <u>Qualifier</u> <u>Associated Sample(s)</u>

Data met QC criteria.

4. CALIBRATION (continued):

Continuing Calibration

<u>PCBs</u> - The following data were <u>not</u> qualified as estimated "J" in the associated samples because the percent difference (%D) of the Continuing Calibration is just outside specified QC Limits:

Fraction	Compound	Value exceeding OC Limits	Associated Sample(s)
PCB for "signal #2"	AR1016 peak A	24.2%D	CDFF48A, CDFF38A, CDFF65C, CDFF65B
PCB for "signal #2"	AR1016 peak D	21.2%D	CDFF48A, CDFF38A, CDFF65C, CDFF65B

Note: The method-specified limit of <15% D for PCB continuing calibration was exceeded for two of the five quantitation peaks for Aroclor 1016 in one continuing calibration standard on 12/6/2003. This occurred on only one of the two chromatographic columns (i.e., signal #2). No qualifiers are required since any positive results in the four samples, bracketed by this CCV, were quantitated using the other column (signal #1) that was within control limits.

5. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

<u>PCBs</u> - The following compounds were either qualified as estimated "J" or rejected "R" due to Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) surrogate recoveries are both outside specified advisory QC limits:

<u>Surrogate</u> <u>Recovery</u> <u>Qualifier</u> <u>Compounds</u> <u>Sample(s)</u>

Data met QC criteria.

6. COMPOUND IDENTIFICATION:

A) PESTICIDE FRACTION:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract. The percent difference (%D) of the positive results obtained on the two GC columns should be $\leq 25\%$. The following analytes in the samples shown were qualified because of compound identification:

<u>PCBs</u> - The following detected compounds were qualified due to a percent difference (%D) between the primary and confirmation columns > 25%:

Compound	<u>%D</u>	Qualifier	Sample(s)
Aroclor-1254	between 25-50%	"J"	CDFF49A, CDFF44A, CDFF58A1, CDFF63A, CDFF53A, CDFF43A, CDFF47A, CDFF58A, CDFF50A, CDFF62A, CDFF57A, CDFF64A, CDFF48A, CDFF55A, CDFF42A, CDFF33A, CDFF36A, CDFF39A, CDFF65C, CDFF65B
Aroclor-1260	between 25-50%	"J"	CDFF64A, CDFF55A, CDFF38A

Note: During the initial calibration sequence, absolute retention times are determined for all single response pesticides, the surrogates, and at least three major peaks of each multi-component analyte. Windows are centered around the mean absolute retention time for the analyte established during the initial calibration. Analytes are identified when peaks are observed in the retention time window for the compound on both GC columns. Comparison of the sample retention times to the retention time windows established during the initial calibration revealed that no additional pesticide compounds were detected in the associated samples. In addition, no shifts for surrogate compound retention times were noted to occur that might require consideration of compounds outside respective retention time windows.

A) PESTICIDE FRACTION (continued):

<u>PCBs</u> - Due to professional judgement, the lower of two positive values generated by the laboratory from the primary and confirmation column analyses was used to report final results for the following pesticide compounds:

Compound

Primary Column Value

Confirmation Column Value

Note: The laboratory has consistently reported the higher of the two results from the two GC columns, unless a CCV recovery outlier indicated that one of the values was more appropriate to report. The RPD's between these results indicated acceptable precision, with the exceptions of those listed, and qualified, in the previous section. No further qualification or adjustments in the reported values were deemed necessary.

7. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

The laboratory indicated in the case narrative that samples, CDFF41A (N54554-23), CDFF48A (N54554-26), and CDFF67D (N54554-21) were used as the originals to prepare the duplicate matrix spikes.

<u>PCBs</u> - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

Original Sample

Spike Recovery

Qualifier

Compound(s)

No qualifiers are required based on high matrix spike recoveries for sample CDFF41A. No positive target compound results were reported in the original, unspiked sample. The other two sets of MS/MSD results were acceptable.

Note: The blank QC spike samples prepared undiluted and analyzed along with all three of the duplicate matrix spikes met all recovery and advisory accuracy criteria. In addition, the surrogate recovery results associated with the high matrix spike results were acceptable.

revised 2/12/92

8. OTHER QC DATA OUT OF SPECIFICATION:

<u>PCBs</u> - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is >50% for aqueous samples, or >100% for soil/sediment samples:

Compound

Matrix

% RPD

Associated Field Duplicate Samples

Data met QC criteria.

Note: There were three sets of field duplicate pairs (CDFF40A / CDFF40A1, CDFF53A / CDFF53A1, and CDFF58A / CDFF58A1). The first pair listed had no target compounds detected and the other two pairs had Aroclor 1254 and Aroclor 1260 detected well within the RPD criteria.

The following soil/sediment/solid sample data (other than TCLP data) were either qualified as estimated "J" (% solids between 10-50%) or rejected "R" (% solids < 10%) because the sample contains more than 50% water:

Fraction

Percent Solids

Qualifier

Compounds Sample(s)

All % solids were > 50%.

The following compounds were qualified as estimated "J" in the indicated samples because the on-column amount of these compounds exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration Sequence:

Fraction

Sample(s)

Compound(s)

No qualification required; laboratory reported from dilution analyses when necessary.

9. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:

Due to professional judgement, the following compounds were not transferred from the indicated dilution sample analyses to the undiluted sample analyses because the reported values of these compounds are either diluted out in the associated dilution sample analyses or are qualified as non-detected "U" due to blank contamination QC criteria:

Fraction Compound

Dilution Sample(s)

Dilution Factor

The analysis report forms (Form 1s), provided by the laboratory, already show only the appropriate and specific compound results, as required, from the dilution analyses. Footnotes were also included to indicate which results were reported from a second, dilution run.

Due to professional judgement, the following positive data were rejected "R" due to possible carryover from a previous sample analysis that contained the compound(s) at high concentration(s):

Fraction

Sample Compound

Sample Compound Concentration

Previous Sample

Compound Concentration

No data qualification.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None.

11. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

PCB Fraction:

Use Sample(s)

Do Not Use Sample(s)

Dilution results were already incorporated into a single version of the Form 1.

Organics Results
Work Tables
and
Qualified Form 1's

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

		Ф. М.И. <u>— 7. М. Ф. С. М. Ф. С. М. Ф. С. М. Ф. С. М. М.</u>								
	Method	Soil	Soil		Soil	Soil				
PCBs	Detection	CDFF52A	CDFF49A		CDFF59A	CDFF60A				
Low Concentration	Limit	N54554-1	N54554-2		N54554-3	N54554-4				
Percent Moisture		16.7	20.7		25.1	23				
Dilution Factor		1	1		1	1				
Aroclor-1016	2.4	U	U		U	U				
Aroclor-1221	5.1	U	U		Ú	U				
Aroclor-1232	3.8	U	U		U	U				
Aroclor-1242	2.9	U	U		Ū	U				
Aroclor-1248	2.5	U	· U		U	U				
Aroclor-1254	1.6	336	543	J	357	1540	D			
Aroclor-1260	2.9	98.7	193		115	366				
· · · · · · · · · · · · · · · · · · ·	dilution factor for									
	cmpds. with "D" flag					2				

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBLIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

	Method	Soil	Soil		Soil		Soil			
PCBs	Detection	CDFF45A	CDFF44A		CDFF58A1		CDFF46A			
Low Concentration	Limit	N54554-5	N54554-6		N54554-7		N54554-8			
Percent Moisture		21	23.1		24.4		25.8			
Dilution Factor		1	1		1		1			
Aroclor-1016	2.4	U	U		U	• • • • • • •	U			
Aroclor-1221	5.1	U	U		U		U			
Aroclor-1232	3.8	U	U		U		U			
Aroclor-1242	2.9	ڶ	U	,	U		U			
Aroclor-1248	2.5	U	U		Ū		U			
Aroclor-1254	1.6	224	325	J	204	J	1330	D		
Aroclor-1260	2.9	86.9	141		73		457			
	dilution factor for									
	cmpds. with "D" flag						2			

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

	Method	Soil		Soil		Soil	S	oil		
PCBs	Detection	CDFF63A		CDFF53A		CDFF43A	CDF	F47A		
Low Concentration	Limit	N54554-9		N54554-10		N54554-11	N545	54-12		
Percent Moisture		24.1		22		25.3	21	.8		
Dilution Factor		1	ĺ	1		1		1		
Aroclor-1016	2.4	U		U		U		J		
Aroclor-1221	5.1	U		U		Ū		J		
Aroclor-1232	3.8	U		Ų		U		J		
Aroclor-1242	2.9	U		U		U .		J		
Aroclor-1248	2.5	U		U		U		J		
Aroclor-1254	1.6	140	J	285	J	303	J 88	3.6 J		
Aroclor-1260	2.9	62		109		164	41	.6		

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

·								
	Method	Soil		Soil	Soil	Soil		
PCBs	Detection	CDFF58A		CDFF53A1	CDFF50A	CDFF51A		
Low Concentration	Limit	N54554-13		N54554-14	N54554-15	N54554-16		
Percent Moisture		25		20.5	22.6	22.4		
Dilution Factor		1		1	1	1		
Aroclor-1016	2.4	U		U	· U	U		
Aroclor-1221	5.1	U		U	U	U		
Aroclor-1232	3.8	U		U	U	U		
Aroclor-1242	2.9	U		U	U	U		
Aroclor-1248	2.5	U		U	U	U		
Aroclor-1254	1.6	146	J	272	324 J	797		
Aroclor-1260	2.9	54		97.7	124	240		

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

Ü .	Method	Soil		Soil	Soil	Soil		
PCBs	Detection	CDFF62A		CDFF61A	CDFF67C	CDFF57A		
Low Concentration	Limit	N54554-17		N54554-18	N54554-19	N54554-20		
Percent Moisture		25.5		20.4	14.9	26.3		
Dilution Factor		1		1	1	1		
Aroclor-1016	2.4	U		U	U	U		
Aroclor-1221	5.1	U		U	U	U		
Aroclor-1232	3.8	U		U	U	U		
Aroclor-1242	2.9	U		U	U	U		
Aroclor-1248	2.5	U		U	U	U		
Aroclor-1254	1.6	346	J	323	322	283	J	
Aroclor-1260	2.9	115		136	95	124		

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

1 -1	TTT								
	Method	Soil	Soil	Soil	Soil				
PCBs	Detection	CDFF67D	CDFF67B	CDFF41A	CDFF64A				
Low Concentration	Limit	N54554-21	N54554-22	N54554-23	N54554-24				
Percent Moisture		20.2	12.6	21.6	23				
Dilution Factor		1	1	. 1	1				
Aroclor-1016	2.4	U	U	U	U				
Aroclor-1221	5.1	U	U	U	U				
Aroclor-1232	3.8	U	U	U	U				
Aroclor-1242	2.9	U	U	U	U				
Aroclor-1248	2.5	U	U	U	U				
Aroclor-1254	1.6	214	336	U	198	J			
Aroclor-1260	2.9	57	109	Ū	91.3	J			

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

			···		(F-3-1-3)
	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF56A	. CDFF48A	CDFF54A	CDFF55A
Low Concentration	Limit	N54554-25	N54554-26	N54554-27	N54554-28
Percent Moisture		22.7	23.6	23.8	24.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	Ų	U	Ū	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	251	75.3 J	267	180 J
Aroclor-1260	2.9	134	31.3	147	94.2 J

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

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	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF66D	CDFF66C	CDFF66B	CDFF40A1
Low Concentration	Limit	N54554-29	N54554-30	N54554-31	N54554-32
Percent Moisture		19.2	16.8	18.1	20.9
Dilution Factor		1.	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	124	454	1860 D	U
Aroclor-1260	2.9	41.7	165	625	U
	dilution factor for				
	cmpds. with "D" flag	1		4	

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF40A	CDFF42A	CDFF33A	CDFF34A
Low Concentration	Limit	N54554-33	N54554-34	N54554-35	N54554-36
Percent Moisture		22.7	23.1	20.2	22.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	Ų	U	U	U
Aroclor-1254	1.6	U	457 J	264 J	485
Aroclor-1260	2.9	U	138	96.3	180

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

					, 0 0/
	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF37A	CDFF36A	CDFF35A	CDFF65D
Low Concentration	Limit	N54554-37	N54554-38	N54554-39	N54554-40
Percent Moisture		24.1	29.4	25.1	13.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	Ų	U	U
Aroclor-1221	5.1	Ū	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	Ų	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	664	468 J	652	112
Aroclor-1260	2.9	217	142	209	U

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

				10 = 11 1 0 1 1 O 1 1 (p.	J' ' 'J'
	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF39A	CDFF38A	CDFF65C	CDFF65B
Low Concentration	Limit	N54554-41	N54554-42	N54554-43	N54554-44
Percent Moisture		21.1	29.4	17.1	17.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U ·	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	·U	U	U
Aroclor-1248	2.5	U	. U	U	U
Aroclor-1254	1.6	296 J	884	142 J	293 J
Aroclor-1260	2.9	182	171 J	44.6	79.2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

Chain of Custody Records and Laboratory Case Narrative

SDG Narrative Accutest Laboratories Job #N54554

(ORGANIC FRACTION)

The samples in this SDG were received at Accutest Laboratories for analysis by SW846 8082 for PCB methodology.

All samples were analyzed within holding times.

GC Semi-volatile Fraction:

- Instrument Model: HP5890/dual ECD
- Column: DB-5 30m x 0.32mm x 0.25um/DB-1701 30m x 0.32mm x 0.25um
- There are no anomalies to report.
- Samples N54554-4, -8, and -31 were diluted further because certain compounds in the original runs were outside of the calibration range.
- Samples N54554-26 (OP15539), N54554-23 (OP15535) and N54554-21 (OP15534) were used as the matrix spike (MS) and matrix spike duplicates (MSD).
- In the OP15535-MS/MSD, recoveries for Aroclor 1016 and Aroclor 1260 are outside control limits due to possible matrix interference. Refer to batch associated blank spike.

(INORGANIC FRACTION)

On the general chemistry fraction:

- The samples were analyzed for general chemistry parameters following the methodologies in this data package.
- All samples were analyzed within holding time.
- Matrix spike (MS) and duplicates (DUP) are not analyzed by this procedure.

Oualifiers possibly reported on the target compound list for all fractions:

- "ND" indicating compound was analyzed but not detected,
- "J" indicating estimated value where the concentration is less than the reporting limit,
- "E" indicating estimated value where the concentration exceeds calibration range, and
- "B" indicating compound is found in associated method blank as well as in the sample.

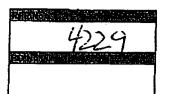
I certify that that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette, has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kevin Dovedytis

Kens Vachts

Report Generation Technician

CHAIN OF CUSTODY RECORD





Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037 NSYSSY newsed

- 1 - / 1	,
	DE VIEW DE LA CONTRACTION DE L
1. Surface	1. HCL
2. Ground water	2. HNO,
3. Leachate	3. Ne ₂ 80 ₄
4. Rinsate	4. H ₂ SO ₄
5. Soji/Sodiment	5 Other (specify)
6. OII	B. ka Only
T. Waste	N. Not preserved
8. Other	"See Comments
(Specify)	
ł	,

Send verbal and	Send verbal and written results to: Weston Solutions, Inc. Sulta 201, 1090 King Georges Post Road, Edison, NJ 08837-3703 Attention: Smita Sumbaly, RST Analytical Coordinator															
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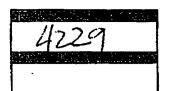
Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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CHAIN OF CUSTODY RECORD





Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037

N545	54 source
Description	
1. Surface	1. HCL
2. Ground water	2. HNO,
3. Leachate	3. Na ₂ SO ₄
4. Rinsale	4. H ₁ 60,
5. Soil/Sediment	5 Other (epecity)
6. Osl	6. ton Only
7. Wasto	N. Not preserved
8. Other	"Sea Comments
(Specify)	

Send verbal and written results to: Weston Solutions, Inc. Suits 201, 1090 King Georges Post Road, Edison, NJ 06837-3703 Attention: Smits Sumbally, RST Analytical Coordinator															
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Weston Salutions, Inc.

FEDERAL PROGRAMS DIVISION

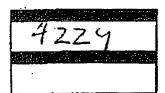
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101

Dec

CHAIN OF CUSTODY RECORD

Fax: 732-225-7037





Removal Support Team EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554	p revise
1. Sustace	1. HCL
2. Ground water	2 HNQ,
9. Leadusio	2 Ne ₂ 80 ₄
4. Rinsate	4. H ₂ SO ₄
5. Soll/Sediment	5 Other (specify)
ê. On	5, loe Only
7. Waate	N. Not preserved
B. Other	*See Comments

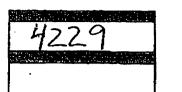
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Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD





Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037

N545	54 never
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Lesschate	3. N=28O2
4. Rinsate	4. H ₂ SO ₄
5. Soll/Sediment	9 Other (specify)
6. Qii	6. Ice Only
7, Waste	N. Not preserved
8. Other	*See Comments

Send verbal and written results to: Weston Solutions, Inc. Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703 Attention: Smita Sumbally, RST Analytical Coordinator															
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Westun Solutions, Inc. FEDERAL PROGRAMS DIVISION

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Report of Analysis

Client Sample ID: CDFF52A Lab Sample ID: N54554-1

SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 83.3

Method: Project:

Matrix:

RFP# 4229

File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** Run #1 12/09/03 OYA 12/03/03 **GEF2410** EF47967.D OP15534 1

Run #2

Initial Weight Final Volume 10.0 ml Run #1 30.3 g

Decachlorobiphenyl

Run #2

PCB List

2051-24-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254	336	20	1.9	ug/kg	
11096-82-5	Aroclor 1260	98.7	20	3.5	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	87%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	90%		26-1	42%	
2051-24-3	Decachlorobinhenyl	95%		32-1	53%	

91%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

32-153%

B = Indicates analyte found in associated method hank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF52A Lab Sample ID:

N54554-1

Date Sampled: 12/02/03 Date Received: 12/03/03

Matrix:

SO - Soil

Percent Solids: 83.3

Project:

RFP# 4229

General Chemistry

Units Analyzed Method Analyte Result \mathbf{RL} DF By

% 12/04/03 Solids, Percent 83.3 1 EPA 160.3 M TC

Report of Analysis

| Client Sample ID: CDFF49A | Lab Sample ID: N54554-2 | Date Sampled: 12/02/03 | Matrix: SO - Soil | Date Received: 12/03/03 | Method: SW846 8082 SW846 3550B | Percent Solids: 79.3

Method: SW846 8082 SW846 3550B Percent Solid Project: RFP# 4229

Analytical Batch Prep Date Prep Batch File ID DF Analyzed By 12/03/03 OP15534 **GEF2410** EF47968.D 12/09/03 OYA Run #1 1 Run #2

Initial Weight Final Volume
Run #1 30.2 g 10.0 ml
Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	_
11097-69-1	Aroclor 1254	543	21	2.0	ug/kg	(1)
11096-82-5	Aroclor 1260	193	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	85%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	90% 26-142%			42%	
2051-24-3	Decachlorobiphenyl	94%		32-1	53%	
2051-24-3	Decachlorobiphenyl	95%		32-1	53%	

07/06/04

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value...

B = Indicates analyte found in associated period blank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF49A

Lab Sample ID: N54554-2 Matrix: SO - Soil

4-2 **Date Sampled:** 12/02/03 oil **Date Received:** 12/03/03 **Percent Solids:** 79.3

Project: RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 79:3 % 1 12/04/03 TC EPA 160.3 M

02/06/04

Client Sample ID: CDFF59A
Lab Sample ID: N54554-3
Matrix: SO - Soil

Method: Project: SW846 8082 SW846 3550B

RFP# 4229

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 74.9

Analytical Batch Prep Date Prep Batch File ID DF Analyzed Вy **GEF2410** 12/09/03 OYA 12/03/03 OP15534 Run #1 EF47969.D 1 Run #2

Initial Weight Final Volume
Run #1 30.6 g 10.0 ml
Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	357	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	115	22	3.9	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	uits	
877-09-8	Tetrachloro-m-xylene	82%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	86%		26-1	42%	
2051-24-3	Decachlorobiphenyl	94%		32-1	53%	
2051-24-3	Decachlorobiphenyl	95%		32-1	53%	



Client Sample ID: CDFF59A Lab Sample ID: N54554-3

Matrix:

SO - Soil

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 74.9

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 74.9 % 1 12/04/03 TC EPA 160.3 M

02/04/04

 Client Sample ID:
 CDFF60A

 Lab Sample ID:
 N54554-4
 Date Sampled:
 12/02/03

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082 SW846 3550B
 Percent Solids:
 77.0

Project: RFP# 4229

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47970.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2	EF47986.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

	Initial Weight	Final Volume	
Run #1	30.1 g	10.0 ml	
Run #2	30.1 g	10.0 ml	

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	_
11097-69-1	Aroclor 1254	1540 ^a	43	4.2	ug/kg	(D)
11096-82-5	Aroclor 1260	366	22	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits		its	
877-09-8	Tetrachloro-m-xylene	83%	86%	26-1	42%	
877-09-8	Tetrachloro-m-xylene	88%	88%	26-1	42%	
2051-24-3	Decachlorobiphenyl	97%	116%	32-1	53%	
2051-24-3	Decachlorobiphenyl	101%	109%	32-1	53%	

(a) Result is from Run# 2

aloclo4

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value -

B = Indicates analyte found in associated method blank

Client Sample ID: CDFF60A Lab Sample ID: N54554-4

Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 77.0

1

Project:

RFP# 4229

General Chemistry

RLAnalyte Result Units DF **Analyzed** By Method

Solids, Percent

%

12/04/03

TC EPA 160.3 M

Client Sample ID: CDFF45A Lab Sample ID: N54554-5

Matrix: Method:

SO - Soil

SW846 8082 SW846 3550B RFP# 4229

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 79.0

Project:

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47971.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2						•	

Initial Weight Final Volume Run #1 30.1 g 10.0 ml Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	224	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	86.9	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	83%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%	
2051-24-3	Decachlorobiphenyl	88%		32-1	53%	
2051-24-3	Decachlorobiphenyl	98%	: :	32-1	53%	



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated and blank

Client Sample ID: CDFF45A

Lab Sample ID: N54554-5 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 79.0

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF **Analyzed** By Method

% 12/04/03 Solids, Percent 79 1 TC EPA 160.3 M

Client Sample ID: CDFF44A Lab Sample ID: N54554-6

Matrix:

SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 76.9

Method: Project:

RFP# 4229

Prep Batch Analytical Batch

Analyzed By **Prep Date** File ID DF 12/10/03 OYA 12/03/03 OP15534 **GEF2410** EF47974.D 1 Run #1

Run #2

Final Volume Initial Weight Run #1 30.6 g

Run #2

10.0 ml

PCB List

Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	21	3.0	ug/kg	
Aroclor 1221	ND	21	6.5	ug/kg	,
Aroclor 1232	ND	21	4.8	ug/kg	
Aroclor 1242	ND	21	3.7	ug/kg	
Aroclor 1248	ND	21	3.2	ug/kg	
Aroclor 1254	325	21	2.1	ug/kg	(3)
Aroclor 1260	141	21	3.8	ug/kg	•
Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
Tetrachloro-m-xylene	85%		26-1	42%	
Tetrachloro-m-xylene	87%		26-142%		
Decachlorobiphenyl	100%		32-1	53%	
Decachlorobiphenyl	98%		32 -1	53%	
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl ND Aroclor 1248 ND Aroclor 1254 325 Aroclor 1260 Run# 1	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Run# 2 Run# 1 Run# 2	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Lim Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl ND 21 3.7 Aroclor 1248 ND 21 3.7 Aroclor 1254 325 21 2.1 3.8 Surrogate Recoveries Run# 1 Run# 2 Lim Tetrachloro-m-xylene 85% 26-1 26-1 26-1 278 26-1 26-1 278 26-1 26-1 278 26-1 26-1 278 26-1 26-1 278 26-1 278 26-1 278 278 278 278 278 278 278 278 278 278	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1256 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Run# 2 3.0 ug/kg 4.8 ug/kg Aroclor 1232 ND 21 3.7 ug/kg Aroclor 1248 ND 21 3.2 ug/kg Aroclor 1254 325 21 2.1 ug/kg Aroclor 1260 Limits



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated many blank

Client Sample ID: CDFF44A

Lab Sample ID: N54554-6

Matrix: SO - Soil

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 76.9

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 76.9 % 1 12/04/03 TC EPA 160.3 M

03/06/04

Client Sample ID: CDFF58A1

Lab Sample ID: Matrix:

N54554-7 SO - Soil

Method: Project:

SW846 8082 SW846 3550B

RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 75.6

File ID DF Analyzed Вy **Prep Date Prep Batch Analytical Batch** EF47975.D 12/10/03 OYA 12/03/03 OP15534 **GEF2410** Run #1 1

Run #2

Final Volume **Initial Weight** 30.1 g

Run #1

10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	204	22	2.2	ug/kg	(3)
11096-82-5	Aroclor 1260	73.0	22	3.9	ug/kg	O .
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	87%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	89%		26-1	42%	
2051-24-3	Decachlorobiphenyl	101%		32-1	53%	
2051-24-3	Decachlorobiphenyl	100%		32-1	53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associate acthod blank

Client Sample ID: CDFF58A1 Lab Sample ID: N54554-7

Lab Sample ID: N54554-7 Matrix: SO - Soil Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 75.6

Project: RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 75.6 % 1 12/04/03 TC EPA 160.3 M

02/06/04

Client Sample ID: CDFF46A Lab Sample ID: N54554-8

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 74.2

Project:

RFP# 4229

								•
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	
Dun #1	FF47076 D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410	

2 EF47987.D 12/10/03 OYA 12/03/03 OP15534 **GEF2410** Run #2

	Initial Weight	Final Volume
Run #1	30.7 g	10.0 ml
Run #2	30.7 g	10.0 ml

108%

99%

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 1330 ^a 457	22 22 22 22 22 22 22 44 22	3.1 6.7 5.0 3.8 3.3 4.3 3.9	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	0
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8 877-09-8	Tetrachloro-m-xylene Tetrachloro-m-xylene	81 % 88 %	83% 92%	26-1 26-1		

92%

83%

(a) Result is from Run# 2

Decachlorobiphenyl

Decachlorobiphenyl

2051-24-3

2051-24-3



32-153%

32-153%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in-associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF46A

Lab Sample ID: N54554-8 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.2

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed Method

74.2 % 1 12/04/03 Solids, Percent TC EPA 160.3 M

Вy

OYA

Client Sample ID: CDFF63A Lab Sample ID: N54554-9

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B RFP# 4229

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 75.9

Project:

File ID EF47988.D

Analyzed 12/10/03

Prep Date 12/03/03

Prep Batch OP15534

Analytical Batch

GEF2410

Run #1 Run #2

Initial Weight Run #1 30.8 g

Final Volume 10.0 ml

DF

1

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	140	21	2.1	ug/kg	(I)
	Aroclor 1260	62.0	21	3.8	ug/kg	9
CAS No	Surrogate Recoveries	Run# 1	Run# 2	Lim	ite	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	87%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated mail blank

Client Sample ID: CDFF63A Lab Sample ID: N54554-9

Matrix:

N54554-9 SO - Soil Date Sampled: 12/02/03

Date Received: 12/03/03 **Percent Solids:** 75.9

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

%

Solids, Percent

75.9

1

12/04/03

TC EPA 160.3 M

02/04/04

Lab Sample ID:

Client Sample ID: CDFF53A

N54554-10

Report of Analysis

Date Sampled:

12/02/03

Date Received: Matrix: SO - Soil 12/03/03 Percent Solids: 78.0 Method: SW846 8082 SW846 3550B Project: RFP# 4229 **Analytical Batch** File ID DF Analyzed Вy **Prep Date Prep Batch** Run #1 EF47989.D 1 12/10/03 OYA 12/03/03 OP15534 **GEF2410** Run #2 **Initial Weight Final Volume** Run #1 10.0 ml 30.0 g Run #2 **PCB** List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND ND 285	21 21 21 21 21 21	3.1 6.5 4.9 3.7 3.2 2.1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	3
11096-82-5 CAS No. 877-09-8 877-09-8	Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene	109 Run# 1 80% 88%	21 Run# 2	3.8 ug/kg Limits 26-142% 26-142%		
2051-24-3 2051-24-3	Decachlorobiphenyl Decachlorobiphenyl	92% 92%		32-1	53 % 53 %	

02/04/04

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated measure blank

Page 1 of 1

Client Sample ID: CDFF53A

Lab Sample ID:

N54554-10

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

Analyte

Matrix:

RFP# 4229

Percent Solids: 78.0

General Chemistry

Result RL Units DF Analyzed By Method

78 Solids, Percent % 1 12/04/03 TC EPA 160.3 M

By

12/10/03

Client Sample ID: CDFF43A

EF47990.D

Lab Sample ID: Matrix:

N54554-11

SO - Soil

1

Date Sampled: 12/02/03 Date Received: 12/03/03

Method:

SW846 8082 SW846 3550B

Project:

RFP# 4229

Percent Solids: 74.7

DF File ID Analyzed

Prep Date OYA 12/03/03

Prep Batch OP15534

Analytical Batch GEF2410

Run #1 Run #2

> **Final Volume Initial Weight**

Run #1

10.0 ml 30.6 g

Run #2

PCB List

Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	22	3.1	ug/kg	
Aroclor 1221	ND	22	6.6	ug/kg	
Aroclor 1232	ND	22	5.0	ug/kg	
Aroclor 1242	ND	22	3.8	ug/kg	
Aroclor 1248	ND	22	3.3	ug/kg	æ
Aroclor 1254	303	22	2.1	ug/kg	(3)
Aroclor 1260	164	22	3.9	ug/kg	
Surrogate Recoveries	Run# 1	Run# 2	Limits		
Tetrachloro-m-xylene	66%		26-1	42%	
Tetrachloro-m-xylene	81%		26-1	42%	
Decachlorobiphenyl	85%	X 0 0 0	32-1	53%	
Decachlorobiphenyl	84%		32-1	53%	
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 303 Aroclor 1260 164 Surrogate Recoveries Run# 1 Tetrachloro-m-xylene 7 Tetrachloro-m-xylene 81% Decachlorobiphenyl 85%	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Run# 2 22 Run# 1 Run# 2	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Lim Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Run# 2 3.1 Aroclor 1232 AnD 22 3.8 AnD 22 3.3 303 22 2.1 Aroclor 1260 Lim Tetrachloro-m-xylene 66% 26-1 26-1 26-1 26-1 26-1 26-1 26-1 26-1	Aroclor 1016 ND 22 3.1 ug/kg Aroclor 1221 ND 22 6.6 ug/kg Aroclor 1232 ND 22 5.0 ug/kg Aroclor 1242 ND 22 3.8 ug/kg Aroclor 1248 ND 22 3.3 ug/kg Aroclor 1254 303 22 2.1 ug/kg Aroclor 1260 164 22 3.9 ug/kg Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 66% 26-142% Tetrachloro-m-xylene 81% 26-142% Decachlorobiphenyl 85% 32-153%



Client Sample ID: CDFF43A Lab Sample ID: N54554-11

Matrix:

N54554-11 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 74.7

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74,7		%	1	12/04/03	TC	EPA 160.3 M

Client Sample ID: CDFF4 Lab Sample ID: N5455 Matrix: SO - So Method: SW846 Project: RFP# 4		i-12 il 8082 S	W846 3550B		Date Sampl Date Receiv Percent Sol	ved: 12/03/03		
Run #1 Run #2	File ID EF48063.D	DF 1	Analyzed 12/12/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413	
Run #1 Run #2	Initial Weight 30.0 g	Final V 10.0 m	Volume i					

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	_
11097-69-1	Aroclor 1254	88.6	21	2.1	ug/kg	(3)
11096-82-5	Aroclor 1260	41.6	21	3.8	ug/kg	9
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	83%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	80%		26-1	42%	
2051-24-3	Decachlorobiphenyl	98%		32-1	53%	
2051-24-3	Decachlorobiphenyl	94%		32-1	53%	



B = Indicates analyte found in associated method lank N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF47A

Lab Sample ID: N54554-12 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 78.2

Project:

RFP# 4229

General Chemistry

RLUnits Analyte Result DF Analyzed By Method

Solids, Percent 78.2 % 1 12/04/03 EPA 160.3 M TC

Client Sample ID: CDFF58A Lab Sample ID: N54554-13 Matrix: SO - Soil Method:

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 75.0

File ID DF Analyzed Вy **Prep Date Prep Batch Analytical Batch** Run #1 EF48064.D 1 12/12/03 OYA 12/03/03 OP15534 **GEF2413**

Run #2

Project:

Final Volume Initial Weight 30.5 g 10.0 ml Run #1 Run #2

Tetrachloro-m-xylene

Decachlorobiphenyl

Decachlorobiphenyl

RFP# 4229

PCB List

877-09-8

2051-24-3

2051-24-3

CAS No.	Compound	Result	RL	MDL	Units	Q
11104-28-2 11141-16-5 53469-21-9	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 146 54.0	22 22 22 22 22 22 22 22 22	3.1 6.6 5.0 3.8 3.3 2.1 3.9	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	S
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	84%		26-1	.42%	

82%

101%

96%



26-142%

32-153%

32-153%

Page 1 of 1

Client Sample ID: CDFF58A

Lab Sample ID:

N54554-13 SO - Soil Date Sampled: 12/02/03

Date Received: 12/03/03 **Percent Solids:** 75.0

Project:

Matrix:

RFP# 4229

KFP# 4225

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 75 % 1 12/04/03 TC EPA 160.3 M

Porlon

Matrix: Method: Project:	SO - Soil SW846 8082 RFP# 4229	SW846 3550B	Date Received: Percent Solids:		
Client Sample ID: Lab Sample ID:	CDFF53A1 N54554-14		Date Sampled:	12/02/03	

Run #1	File ID EF48065.D	DF 1	Analyzed 12/12/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413	
Run #2								_

	Initial Weight	Final Volume	
Run #1	30.1 g	10.0 ml	
Run #2			

PCB List

CAS No.	Compound	Result	RL	MDL .	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	•
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	272	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	97.7	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
877-09-8	Tetrachloro-m-xylene	74%		26-1	142%	
877-09-8	Tetrachloro-m-xylene	81%		26 -1	142%	
2051-24-3	Decachlorobiphenyl	93%		32-1	153%	
2051-24-3	Decachlorobiphenyl	87%		32 -1	153%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

J = Indicates an estimated value
B = Indicates analyte found in associated method ank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF53A1

Lab Sample ID:

General Chemistry

N54554-14

Date Sampled: 12/02/03

Matrix:

SO - Soil

Date Received: 12/03/03 Percent Solids: 79.5

Project:

Analyte

RFP# 4229

RLDF Method Result Units Analyzed By

12/04/03 79.5 % 1 TC EPA 160.3 M Solids, Percent

Project: RFP# 4229

DF **Analytical Batch** Prep Date **Prep Batch** File ID Analyzed By 12/12/03 OYA 12/03/03 OP15534 **GEF2413** EF48066.D 1 Run #1 Run #2

Initial Weight Final Volume Run #1 30.4 g 10.0 ml Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units (2
11104-28-2 11141-16-5 53469-21-9 12672-29-6	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	21 21 21 21 21	3.0 6.5 4.8 3.7 3.2	ug/kg ug/kg ug/kg ug/kg ug/kg	
11097-69-1 11096-82-5 CAS No.	Aroclor 1254 Aroclor 1260 Surrogate Recoveries	324 124 Run# 1	21 21 Run# 2	2.1 3.8 Lim	ug/kg ug/kg its)

CAS No.	Surrogate Recoveries	Run#1 R	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	87% 83% 98% 93%		26-142% 26-142% 32-153% 32-153%

polon

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method ank

Client Sample ID: CDFF50A

Lab Sample ID:

Matrix:

N54554-15 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 77.4

Project:

RFP# 4229

General Chemistry

Result \mathbf{RL} Units DF Method Analyte Analyzed By

% Solids, Percent 77.4 1 12/04/03 TC EPA 160.3 M

Client Sample ID: CDFF51A Lab Sample ID:

Matrix:

N54554-16 SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Method:

SW846 8082 SW846 3550B

Project:

RFP# 4229

Percent Solids: 77.6

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48067.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2	•		•				

Initial Weight Final Volume 10.0 ml Run #1 30.6 g Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	•
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	797	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	240	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	77%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	85%	,	26-142%		
2051-24-3	Decachlorobiphenyl	98%		32-1	53%	
2051-24-3	Decachlorobiphenyl	94%		32-153%		



E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method ank

Client Sample ID: CDFF51A

Lab Sample ID: Matrix:

N54554-16 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 77.6

Project:

RFP# 4229

General Chemistry

RL**Analyte** Result Units DF Analyzed Method

Solids, Percent 77.6 % 1 12/04/03 TC EPA 160.3 M

			Kepo	I UI AII	a1y515			Page 1 of 1
Client Sam Lab Sampl Matrix: Method: Project:	_	4-17 oil 8082 SV	V846 3550B		Date 1	Sample Receive nt Solid	d: 12/03/03	
Run #1 Run #2	File ID EF48070.D	DF 1	Analyzed 12/13/03	By OYA	Prep D 12/03/0		Prep Batch OP15534	Analytical Batch GEF2413
Run #1 Run #2	Initial Weight 30.0 g	Final V 10.0 ml				· :		
PCB List								
CAS No.	Compound		Result	RL	MDL	Units	Q	
12674-11-2 11104-28-2	Aroclor 1221		ND ND	22 22	3.2 6.8	ug/kg ug/kg		•
11141-16-5 53469-21-9	Aroclor 1242		ND ND ND	22 22 22	5.1 3.9 3.4	ug/kg ug/kg		
12672-29-6 11097-69-1 11096-82-5	Aroclor 1254		346 115	22 22 22	2.2 4.0	ug/kg ug/kg ug/kg	(J)	
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Lim			
877-09-8 877-09-8	Tetrachloro-m- Tetrachloro-m-	•	84% 90%			42% 42%		
2051-24-3	Decachlorobipl	•	104%			53%	•	

02/06/04

ND = Not detected

2051-24-3

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

J = Indicates an estimated value

32-153%

B = Indicates analyte found in associate method blank

Client Sample ID: CDFF62A

Lab Sample ID: Matrix:

N54554-17 SO - Soil

Date Received: 12/03/03 Percent Solids: 74.5

Date Sampled: 12/02/03

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 74.5 % 1 12/04/03 TC EPA 160.3 M

Client Sample ID: CDFF61A Lab Sample ID: N54554-18 Date Sampled: Date Received: Matrix: SO - Soil Method: Percent Solids: 79.6

Project:

SW846 8082 SW846 3550B RFP# 4229

DF

Prep Batch Analytical Batch

12/02/03

12/03/03

File ID Analyzed By **Prep Date** EF48071.D 12/13/03 OYA 12/03/03 OP15534 **GEF2413** Run #1 1

Run #2

Initial Weight Final Volume Run #1 30.5 g 10.0 ml Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	323	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	136	21	3.6	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	80%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	83%		26-1	42%	
2051-24-3	Decachlorobiphenyl	97%		32-153%		
2051-24-3	Decachlorobiphenyl	93%		32-1	.53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated in thod blank

ir_k. I Page 1 of 1

Client Sample ID: CDFF61A

Lab Sample ID: N54554-18

Matrix:

SO - Soil

Date Sampled:

12/02/03 Date Received: 12/03/03

Percent Solids: 79.6

Project:

RFP# 4229

General Chemistry

Result RLAnalyte Units DF Analyzed Method Вy

Solids, Percent 79.6 % 1 12/04/03 TC EPA 160.3 M

Client Sample ID: CDFF67C

30.8 g

Lab Sample ID:

N54554-19 SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Matrix: Method:

SW846 8082 SW846 3550B

Project:

RFP# 4229

Percent Solids: 85.1

		-					
	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48072.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
l					:		

Run #2

Initial Weight **Final Volume**

Run #1

10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	322	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	95.0	19	3.4	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	79%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	85%		26-142%		
2051-24-3	Decachlorobiphenyl	91%		32-153%		
2051-24-3	Decachlorobiphenyl	86%		32-1	53%	



B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compand

Client Sample ID: CDFF67C

Lab Sample ID: N54554-19

Matrix: SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 85.1

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 85.1 % 1 12/04/03 TC EPA 160.3 M

oglor/ox

Client Sample ID: CDFF57A

Lab Sample ID: N54554-20

Matrix:

SO - Soil

Method: Project: SW846 8082 SW846 3550B

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Date Received: 12/03/03 **Percent Solids:** 73.7

RFP# 4229

1	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47935.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409

Run #2

Initial Weight Final Volume

Run #1 30.3 g

10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 283	22 22 22 22 22 22 22 22 22	3.2 6.8 5.1 3.9 3.4 2.2 4.0	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2			
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	89% 92% 89% 92%		26-1 32-1	42% 42% 53% 53%	

02/04/04

B = Indicates analyte found in associated method blenk

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF57A

Lab Sample ID: N54554-20 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 73.7

General Chemistry

RL Analyte Result Units DF Analyzed Method

Solids, Percent 73.7 % 1 12/04/03 TC EPA 160.3 M

Client Sample ID: CDFF67D

Lab Sample ID:

N54554-21

Matrix: Method: SO - Soil SW846 8082 SW846 3550B **Date Sampled: 12/02/03**

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 79.8

DF **Analytical Batch** File ID Analyzed By **Prep Date Prep Batch** EF47966.D 12/09/03 OYA 12/03/03 OP15534 **GEF2410** Run #1 1

Run #2

Final Volume Initial Weight

Run #1 30.3 g

Run #2

10.0 ml

PCB List

2051-24-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	214	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	57.0	21	3.7	ug/kg	•
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	88%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	91%		26-1	42%	
2051-24-3	Decachlorobiphenyl	99%		32-1	53%	

96%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

J = Indicates an estimated value

32-153%

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF67D

Lab Sample ID:

N54554-21 SO - Soil Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 79.8

Project:

Matrix:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 79.8 % 1 12/04/03 TC EPA 160.3 M

02/04/04

Client Sample ID: CDFF67B

Lab Sample ID: Matrix: N54554-22

s: SO - Soil

Method: Project: SW846 8082 SW846 3550B

RFP# 4229

Date Sampled: 12/02/03 Date Received: 12/03/03

Date Received: 12/03/03 Percent Solids: 87.4

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 EF47936.D 1 12/08/03 OYA 12/03/03 OP15535 GEF2409

Run #2

Initial Weight Final Volume

Run #1

30.1 g

10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
			*** 10	2.7	M	
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	336	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	109	19	3.4	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Limits		
877-09-8	Tetrachloro-m-xylene	86%		26-1	142%	
877-09-8	Tetrachloro-m-xylene	88%		26-1	142%	
2051-24-3	Decachlorobiphenyl	79%		32- 1	153%	
2051-24-3	Decachlorobiphenyl	80%		32- 1	153%	

03/06/04

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF67B

Lab Sample ID: N:

N54554-22 SO - Soil **Date Sampled:** 12/02/03

Date Received: 12/03/03

Project:

Matrix:

RFP# 4229

Percent Solids: 87.4

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 87.4 % 1 12/05/03 TC ASTM 4643-00

02/06/04

Client Sample ID: CDFF41A Lab Sample ID: N54554-23

Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Method:

SW846 8082 SW846 3550B

EF47950.D

30.1 g

Project:

RFP# 4229

Percent Solids: 78.4

Run #1

File ID DF

By **Prep Date Prep Batch** OYA 12/03/03 OP15535

32-153%

32-153%

Analytical Batch GEF2409

Run #2

Initial Weight Final Volume

Decachlorobiphenyl

Decachlorobiphenyl

Run #1

10.0 ml

1

Run #2

PCB List

2051-24-3

2051-24-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	78%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%	

80%

79%

Analyzed

12/09/03

ND = Not detected

MDL - Method Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF41A

Lab Sample ID: N54554-23

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 78.4

Project:

RFP# 4229

General Chemistry

Analyte Result \mathbf{RL} Units DF Analyzed Method

78.4 1 12/04/03 Solids, Percent TC EPA 160.3 M

Client Sample ID: CDFF64A Lab Sample ID: N54554-24

Matrix:

SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 77.0

Method: RFP# 4229 Project:

<u> </u>							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47937.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume		
Run #1	30.1 g	10.0 ml	•	
Run #2				

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	edition.
11097-69-1	Aroclor 1254	198	22	2.1	ug/kg	(T)
11096-82-5	Aroclor 1260	91.3	22	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	91%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	95%		26-1	42%	
2051-24-3	Decachlorobiphenyl	87%		32-1	53%	
2051-24-3	Decachlorobiphenyl	89%		32-1	53%	



N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF64A

Lab Sample ID: Matrix:

N54554-24 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 77.0

General Chemistry

Method Analyzed RL Units DF Result Analyte

12/04/03 % 1 TC EPA 160.3 M Solids, Percent

Client Sample ID: CDFF56A

Lab Sample ID: Matrix:

N54554-25

SO - Soil

Method:

File ID

30.3 g

EF47938.D

SW846 3550B SW846 8082

Analyzed

12/08/03

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 77.3

Project:

RFP# 4229

Analytical Batch Prep Date **Prep Batch** By OYA 12/03/03 OP15535 **GEF2409**

Run #1 Run #2

> **Final Volume Initial Weight**

Run #1

10.0 ml

DF

1

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	251	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	134	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	78%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	82%		26-1	42%	
2051-24-3	Decachlorobiphenyl	80%		32-1	53%	
2051-24-3	Decachlorobiphenyl	81%		32-1	.53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: CDFF56A Lab Sample ID: N54554-25 N54554-25

Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 77.3

Project:

RFP# 4229

General Chemistry

Result RL Units DF Analyzed By Method Analyte

77.3 % 1 12/04/03 TC EPA 160.3 M Solids, Percent

 Client Sample ID:
 CDFF48A

 Lab Sample ID:
 N54554-26
 Date Sampled:
 12/02/03

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082 SW846 3550B
 Percent Solids:
 76.4

Project: RFP# 4229

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43577.D	. 1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume			
Run #1 Run #2	30.5 g	10.0 ml		•	
Kun #Z			,		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	_
11097-69-1	Aroclor 1254 a	75.3	21	2.1	ug/kg	(J)
11096-82-5	Aroclor 1260 a	31.3	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	44%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	49%		26-1	42%	
2051-24-3	Decachlorobiphenyl	61%		32-1	53%	
2051-24-3	Decachlorobiphenyl	49%		32-1	53%	

(a) Reported from 1st signal.



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicate's value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated met lank

Client Sample ID: CDFF48A

Lab Sample ID:

N54554-26

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 76.4

Project:

Matrix:

RFP# 4229

General Chemistry

Result RL Units DF Analyzed Method Analyte

Solids, Percent 76.4 % 12/05/03 TC ASTM 4643-00

Client Sample ID: CDFF54A Lab Sample ID: N54554-27

30.2 g

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 76.2

Project:

RFP# 4229

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch EF47939.D 1 12/08/03 OYA 12/03/03 OP15535 GEF2409

Run #1 Run #2

Initial Weight Final Volume

Run #1

10.0 ml

Run #2

PCB List

	_					
CAS No.	Compound	Result	RL .	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	267	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	147	22	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Limits		
877-09-8	Tetrachloro-m-xylene	86%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	89%		26-1	42%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: CDFF54A

Lab Sample ID: NS Matrix: SC

N54554-27 SO - Soil **Date Sampled:** 12/02/03 **Date Received:** 12/03/03

Percent Solids: 76.2

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 76.2 % 1 12/04/03 TC EPA 160.3 M

02/06/0

Client Sample ID: CDFF55A Lab Sample ID: N54554-28

Matrix: Method:

Project:

SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 75.2

RFP# 4229

								_
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	
Run #1	EF47943.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409	
Dun #2								

	Initial Weight	Final Volume
Run #1 Run #2	30.1 g	10.0 ml

PCB List

ÇAS No.	Compound	Result	RL	MDL	Units	Q	
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg		
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg		
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg		
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg		
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg		
11097-69-1	Aroclor 1254	180	22	2.2	ug/kg	(3)	
11096-82-5	Aroclor 1260	94.2	22	3.9	ug/kg	J	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its		
877-09-8	Tetrachloro-m-xylene	80%		26-1			
877-09-8	Tetrachloro-m-xylene	88%		26-142%			
2051-24-3	Decachlorobiphenyl	80%		32-1	53%		
2051-24-3	Decachlorobiphenyl	83%		32-1	53%		



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method lak

Client Sample ID: CDFF55A

Lab Sample ID: N54554-28 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 75.2

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 75.2 % 1 12/04/03 TC EPA 160.3 M

02/06/04

Client Sample ID: CDFF66D Lab Sample ID:

Matrix:

N54554-29

SO - Soil

Method: Project:

SW846 8082 SW846 3550B

RFP# 4229

1

Date Sampled: Date Received:

12/02/03 12/03/03

80.8 Percent Solids:

File ID DF EF47944.D

Analytical Batch Analyzed By **Prep Date Prep Batch GEF2409** 12/09/03 OYA 12/03/03 OP15535

Run #1 Run #2

Final Volume Initial Weight 10.0 ml Run #1 30.2 g

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.2	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254	124	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	41.7	20	3.6	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	aits	
877-09-8	Tetrachloro-m-xylene	86%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	100%		26-1	42%	
2051-24-3	Decachlorobiphenyl	86%		32-1	53%	
2051-24-3	Decachlorobiphenyl	88%		32-1	53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method in a second method method in a second method in a second method method method in a second method metho

Client Sample ID: CDFF66D

Lab Sample ID: N54554-29 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 80.8

Project:

RFP# 4229

General Chemistry

Analyte Result \mathbf{RL} Units DF Analyzed Method

Solids, Percent 80.8 % 1 12/05/03 TC ASTM 4643-00

By

OYA

Client Sample ID: CDFF66C

30.0 g

Lab Sample ID: Matrix:

N54554-30 SO - Soil

Date Sampled: 12/02/03

Method:

SW846 8082 SW846 3550B

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 83.2

File ID Run #1 EF47945.D DF Analyzed 1 12/09/03

Prep Date 12/03/03

Prep Batch OP15535

Analytical Batch GEF2409

Run #2

Final Volume Initial Weight

Run #1 Run #2 10.0 ml

PCB List

	I CD List						
	CAS No.	Compound	Result	RL	MDL	Units	Q
	12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
	11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
	11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
	53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
	12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
	11097-69-1	Aroclor 1254	454	20	2.0	ug/kg	
	11096-82-5	Aroclor 1260	165	20	3.5	ug/kg	
٠	e pe						
	CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
	877-09-8	Tetrachloro-m-xylene	81%		26-1	42%	
	877-09-8	Tetrachloro-m-xylene	88%		26-1	42%	
	2051-24-3	Decachlorobiphenyl	85%		32-1	.53%	
	2051-24-3	Decachlorobiphenyl	84%		32-1	.53%	
			55555555555555555555555555555				

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method sank

Page 1 of 1

Client Sample ID: CDFF66C

Lab Sample ID: N54554-30

Matrix: SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 83.2

Project:

Analyte

RFP# 4229

General Chemistry

Result RL Units DF Analyzed By Method

Solids, Percent 83.2 % 1 12/05/03 TC ASTM 4643-00

02/06/04

Client Sample ID: CDFF66B Date Sampled: 12/02/03 Lab Sample ID: N54554-31 Matrix: Date Received: 12/03/03 SO - Soil Percent Solids: 81.9 Method: SW846 8082 SW846 3550B

RFP# 4229 Project:

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47946.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2	EF47983.D	4	12/10/03	OYA	12/03/03	OP15535	GEF2410

	Initial Weight	Final Volume	
Run #1	30.2 g	10.0 ml	
Run #2	30.2 g	10.0 ml	

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	_
11097-69-1	Aroclor 1254	1860 a	81	7.9	ug/kg	
11096-82-5	Aroclor 1260	625	20	3.6	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	88%	86%	26-1	42%	
877-09-8	Tetrachloro-m-xylene	93%	86%	26-1	42%	
2051-24-3	Decachlorobiphenyl	80%	109%	32-1	53%	
2051-24-3	Decachlorobiphenyl	82%	116%	32-1	53%	

(a) Result is from Run# 2



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF66B

Lab Sample ID: N54554-31 Matrix: SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 81.9

Project:

RFP# 4229

General Chemistry

Units DF Analyte Result RL Analyzed By Method

Solids, Percent 81.9 % 1 12/05/03 TC ASTM 4643-00

By

OYA

Client Sample ID: CDFF40A1 Lab Sample ID: N54554-32

> File ID EF47947.D

30.4 g

Matrix:

N34334-32 SO - Soil **Date Sampled:** 12/02/03 **Date Received:** 12/03/03

Method:

SW846 8082 SW846 3550B

Percent Solids: 79.1

12/03/03

Project:

RFP# 4229

Prep Date Prep Batch Analytical Batch

GEF2409

OP15535

Run #1 Run #2

Initial Weight Final Volume

Run #1

10.0 ml

DF

1

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	uits	
877-09-8	Tetrachloro-m-xylene	68%		26-1	42%	
877-0 9 -8	Tetrachloro-m-xylene	91%		26-1	42%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	

Analyzed

12/09/03

popolo +

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

72

Client Sample ID: CDFF40A1 Lab Sample ID:

Matrix:

N54554-32 SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 79.1

Project:

RFP# 4229

General Chemistry

Result RLUnits DF Method Analyzed **Analyte**

Solids, Percent 79.1 % 1 12/04/03 TC EPA 160.3 M

 Client Sample ID:
 CDFF40A

 Lab Sample ID:
 N54554-33
 Date Sampled:
 12/02/03

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082
 SW846 3550B
 Percent Solids:
 77.3

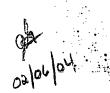
Project: RFP# 4229

Prep Date Prep Batch Analytical Batch File ID DF Analyzed By 12/09/03 **OYA** 12/03/03 OP15535 **GEF2409** EF47948.D Run #1 1 Run #2

Initial Weight Final Volume
Run #1 30.1 g 10.0 ml
Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.3	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
877-09-8	Tetrachloro-m-xylene	78%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	88%		26-1	42%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value____

B = Indicates analyte found in associated method blank

Client Sample ID: CDFF40A

Lab Sample ID: N54554-33 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 77.3

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 77.3 % 1 12/04/03 TC EPA 160.3 M

02/01/04

Client Sample ID: CDFF42A

Lab Sample ID:

N54554-34

Date Sampled: 12/02/03

Matrix:

SO - Soil

Date Received: 12/03/03

Method:

SW846 8082 SW846 3550B

Percent Solids: 76.9

Project:

RFP# 4229

Run #1

File ID EF47949.D Analyzed Вy 12/09/03 OYA **Prep Date** 12/03/03

Prep Batch OP15535

Analytical Batch GEF2409

Run #2

Initial Weight

30.3 g

Final Volume

Run #1

10.0 ml

DF

1

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	457	21	2.1	ug/kg	(3)
11096-82-5	Aroclor 1260	138	21	3.8	ug/kg	9
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	77%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%	
2051-24-3	Decachlorobiphenyl	77%		32-1	.53%	
2051-24-3	Decachlorobiphenyl	74%		32-1	.53%	



N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF42A Lab Sample ID:

Matrix:

N54554-34

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 76.9

General Chemistry

RL Units DF Analyzed By Method Result **Analyte**

12/04/03 76.9 % 1 TC EPA 160.3 M Solids, Percent

Analytical Batch Prep Date Prep Batch File ID DF Analyzed By 12/10/03 OYA 12/03/03 OP15535 **GEF2410** EF47977.D 1 Run #1 Run #2

Initial Weight Final Volume
Run #1 30.2 g 10.0 ml
Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	_
11097-69-1	Aroclor 1254	264	21	2.0	ug/kg	(3)
11096-82-5	Aroclor 1260	96.3	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	86%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	90%		26-1	42%	
2051-24-3	Decachlorobiphenyl	98%		32-1	.53%	
2051-24-3	Decachlorobiphenyl	97%		32-1	.53 %	

es |06/04

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

78

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF33A

Lab Sample ID: Matrix:

N54554-35 SO - Soil Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 79.8

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 79.8 % 1 12/04/03 TC EPA 160.3 M

02/06/04

Client Sample ID: CDFF34A

Lab Sample ID: Matrix:

N54554-36

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Method: Project:

SW846 8082 SW846 3550B RFP# 4229

Percent Solids: 77.1

File ID Run #1

DF EF47978.D

Analyzed By **OYA** 12/10/03

Prep Date 12/03/03

Prep Batch OP15535

Analytical Batch GEF2410

Run #2

Initial Weight Final Volume

Run #1 30.3 g 10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	485	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	180	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	76%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	83%		26-1	42%	
2051-24-3	Decachlorobiphenyl	94%		32-1	.53%	
2051-24-3	Decachlorobiphenyl	96%		32-1	.53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated needs blank

Client Sample ID: CDFF34A

Lab Sample ID: Matrix:

N54554-36 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 77.1

Project:

RFP# 4229

General Chemistry

RL Units DF Analyzed Method Result Analyte

% 1 12/04/03 Solids, Percent 77.1 TC EPA 160.3 M

Client Sample ID: CDFF37A Lab Sample ID: N54554-37

Matrix:

SO - Soil

SW846 8082 SW846 3550B

Analyzed

12/10/03

Date Sampled: Date Received:

12/02/03 12/03/03

Percent Solids: 75.9

Method: Project:

RFP# 4229

File ID

DF EF47979.D 1

By OYA

Prep Date 12/03/03

32-153%

Prep Batch OP15535

Analytical Batch GEF2410

Run #1 Run #2

> **Final Volume Initial Weight** 30.4 g

Run #1

Run #2

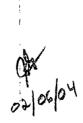
10.0 ml

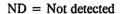
PCB List

2051-24-3

CAS No.	Compound	Result	RL	MDL	Units	Q	
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg		
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg		
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg		
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg		
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg		
11097-69-1	Aroclor 1254	664	22	2.1	ug/kg		
11096-82-5	Aroclor 1260	217	22	3.8	ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
877-09-8	Tetrachloro-m-xylene	78%		26-1	42%		
877-09-8	Tetrachloro-m-xylene	81%		26-142%			
2051-24-3	Decachlorobiphenyl	91%		32-1	53%		

96%





MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

J = Indicates an estimated value

B = Indicates analyte found in associated method ank

Client Sample ID: CDFF37A

Lab Sample ID: Matrix:

N54554-37 SO - Soil Date Sampled: 12/02/03

Date Received: 12/03/03 **Percent Solids:** 75.9

Project:

RFP# 4229

General Chemistry

	Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
\cdot								

Solids, Percent 75.9 % 1 12/04/03 TC EPA 160.3 M

03/00/04

Analytical Batch GEF2409

Report of Analysis

Client Sam Lab Sample Matrix: Method: Project:					Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 70.6			
Run #1 Run #2	File ID EF47940.D	DF 1	Analyzed 12/08/03	By OYA	Prep Date 12/03/03		Prep Batch OP15535	
Run #1 Run #2	Initial Weight 30.2 g	Final Vol 10.0 ml	ume					
PCB List								
CAS No.	Compound		Result	RL	MDL	Units	Q	
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254		ND ND ND ND ND 468 142	23 23 23 23 23 23 23 23 23	3.4 7.1 5.3 4.0 3.6 2.3 4.2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	; ; ; ;	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Limits			
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl		87% 90% 87% 87%		26-142% 26-142% 32-153% 32-153%			

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

J = Indicates an estimated value B = Indicates analyte found in associated method blank

Client Sample ID: CDFF36A

Lab Sample ID:

N54554-38

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 70.6

Project:

RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 70.6 % 1 12/04/03 TC EPA 160.3 M

Paro 104

Client Sample ID: CDFF35A Lab Sample ID:

Matrix: Method: N54554-39 SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 74.9

Project:

RFP# 4229

File ID Run #1 EF47980.D

30.3 g

Analyzed 12/10/03

By 12/03/03 OYA

Prep Date Prep Batch OP15535

Analytical Batch

GEF2410

Run #2

Initial Weight **Final Volume**

Run #1

10.0 ml

DF

1

Run #2

PCB List

Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	22	3.2	ug/kg	
Aroclor 1221	ND	22	6.7	ug/kg	
Aroclor 1232	ND	22	5.0	ug/kg	
Aroclor 1242	ND	22	3.8	ug/kg	
Aroclor 1248	ND	22	3.3	ug/kg	
Aroclor 1254	652	22	2.2	ug/kg	
Aroclor 1260	209	22	3.9	ug/kg	
Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
Tetrachloro-m-xylene	83%		26 -1	142%	
Tetrachloro-m-xylene	82%		26 -1	142%	
Decachlorobiphenyl	104%		32 -1	153%	
Decachlorobiphenyl	101%		32 -1	153%	
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl ND Aroclor 1260 Run# 1	Aroclor 1016 ND 22 Aroclor 1221 ND 22 Aroclor 1232 ND 22 Aroclor 1242 ND 22 Aroclor 1248 ND 22 Aroclor 1254 652 22 Aroclor 1260 209 22 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene 83% Tetrachloro-m-xylene 82% Decachlorobiphenyl 104%	Aroclor 1016 ND 22 3.2 Aroclor 1221 ND 22 6.7 Aroclor 1232 ND 22 5.0 Aroclor 1242 ND 22 3.8 Aroclor 1248 ND 22 3.3 Aroclor 1254 652 22 2.2 Aroclor 1260 209 22 3.9 Surrogate Recoveries Run# 1 Run# 2 Ling Tetrachloro-m-xylene 83% 26-1 Tetrachloro-m-xylene 82% 26-1 Decachlorobiphenyl 104% 32-1	Aroclor 1016 ND 22 3.2 ug/kg Aroclor 1221 ND 22 6.7 ug/kg Aroclor 1232 ND 22 5.0 ug/kg Aroclor 1242 ND 22 3.8 ug/kg Aroclor 1248 ND 22 3.3 ug/kg Aroclor 1254 652 22 2.2 ug/kg Aroclor 1260 209 22 3.9 ug/kg Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 83% 26-142% Tetrachloro-m-xylene 82% 26-142% Decachlorobiphenyl 104% 32-153%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method ank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF35A Lab Sample ID: N54554-39 N54554-39 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.9

Project:

RFP# 4229

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method	
Solids, Percent	74.9		%	1	12/04/03	TC	EPA 160.3 M	

 Client Sample ID:
 CDFF65D

 Lab Sample ID:
 N54554-40
 Date Sampled:
 12/02/03

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082 SW846 3550B
 Percent Solids:
 86.1

Project: RFP# 4229

Analytical Batch File ID DF **Analyzed** By **Prep Date Prep Batch** OYA EF47981.D 12/10/03 12/03/03 OP15535 **GEF2410** Run #1 1 Run #2

Initial Weight Final Volume
Run #1 30.3 g 10.0 ml
Run #2

PCB List

Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	19	2.7	ug/kg	
Aroclor 1221	ND	19	5.8	ug/kg	
Aroclor 1232	ND	19	4.4	ug/kg	
Aroclor 1242	ND	19	3.3	ug/kg	
Aroclor 1248	ND	19	2.9	ug/kg	
Aroclor 1254	112	19	1.9	ug/kg	
Aroclor 1260	ND	19	3.4	ug/kg	
Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
Tetrachloro-m-xylene	90%		26-1	42%	
Tetrachloro-m-xylene	92%		26-1	42%	
Decachlorobiphenyl	94%		32-1	53%	
Decachlorobiphenyl	103%		32-1	53%	
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 112 Aroclor 1260 ND Surrogate Recoveries Run# 1 Tetrachloro-m-xylene 90% Tetrachloro-m-xylene 92% Decachlorobiphenyl 94%	Aroclor 1016 ND 19 Aroclor 1221 ND 19 Aroclor 1232 ND 19 Aroclor 1242 ND 19 Aroclor 1248 ND 19 Aroclor 1254 112 19 Aroclor 1260 ND 19 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene 90% Tetrachloro-m-xylene 92% Decachlorobiphenyl 94%	Aroclor 1016 Aroclor 1221 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Lim Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Pub 2.7 ND 19 5.8 Av 19 4.4 Av 2.9 Av 2.9 Av 3.3 Aroclor 1248 ND 19 2.9 Aroclor 1254 I 12 19 1.9 3.4 Lim Tetrachloro-m-xylene 90% 26-1 26-1 26-1 26-1 26-1 26-1 26-1 26-1	Aroclor 1016 Aroclor 1221 Aroclor 1221 ND 19 5.8 ug/kg Aroclor 1232 ND 19 4.4 ug/kg Aroclor 1242 ND 19 3.3 ug/kg Aroclor 1248 ND 19 2.9 ug/kg Aroclor 1254 Aroclor 1254 Aroclor 1260 ND 19 3.4 ug/kg Aroclor 1260 Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 90% 26-142% Tetrachloro-m-xylene 92% 26-142% Decachlorobiphenyl 94% 32-153%

Poslovloy

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF65D

Lab Sample ID: N54554-40

Matrix:

Project:

SO - Soil

RFP# 4229

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 86.1

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 86.1 % 1 12/04/03 TC EPA 160.3 M

00/04/04

Client Sample ID: CDFF39A N54554-41 Lab Sample ID:

Matrix: Method:

Project:

SO - Soil

SW846 8082 SW846 3550B

RFP# 4229

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 78.9

Analytical Batch Prep Date Prep Batch DF Analyzed Вy File ID OYA 12/03/03 OP15535 GEF2410 Run #1 EF47982.D 12/10/03

Run #2

Initial Weight Final Volume Run #1 30.2 g

10.0 ml

Run #2

PCB List

G + G > 7	a	D14	DT	MDI	Y Jackson	^
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	NĐ	21	3.2	ug/kg	_
11097-69-1	Aroclor 1254	296	21	2.1	ug/kg	(3)
11096-82-5	Aroclor 1260	182	21	3.7	ug/kg	•
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	87%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	90%		26-1	42%	
2051-24-3	Decachlorobiphenyl	106%		32-1	53%	
2051-24-3	Decachlorobiphenyl	99%		32-1	53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method lank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF39A

Lab Sample ID: Matrix:

N54554-41 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 78.9

Project:

RFP# 4229

General Chemistry

Analyte Result \mathbf{RL} Units DF Analyzed Method

78.9 12/04/03 EPA 160.3 M Solids, Percent % 1

Client Sample ID: CDFF38A Lab Sample ID: N54554-42

Matrix:

SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 70.6

Method: Project:

RFP# 4229

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43578.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	3.4	ug/kg	
11104-28-2	Aroclor 1221	ND	24	7.2	ug/kg	
11141-16-5	Aroclor 1232	ND	24	5.4	ug/kg	
53469-21-9	Aroclor 1242	ND	24	4.1	ug/kg	
12672-29-6	Aroclor 1248	ND	24	3.6	ug/kg	
11097-69-1	Aroclor 1254 ^a	884	24	2.3	ug/kg	
11096-82-5	Aroclor 1260 a	171	24	4.2	ug/kg	(J)
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	79%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	68%		26-1	42%	
2051-24-3	Decachlorobiphenyl	111%		32-1	53%	
2051-24-3	Decachlorobiphenyl	103%		32-1	53%	

(a) Report from 1st signal.



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

J = Indicates an estimated value
B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF38A

Lab Sample ID: N54554-42

Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 70.6

Project: RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 70.6 % 1 12/04/03 TC EPA 160.3 M

02/04/04

Client Sample ID: CDFF65C Lab Sample ID: N54554-43

Lab Sample 119
Matrix:

Method:

SO - Soil

SW846 8082 SW846 3550B

W840 8082 SW840

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 82.9

Project: RFP# 4229

70 #1	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1 Run #2	AB43581.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138

					- :	·	
	Initial Weight	Final Volume					
Run #1	30.5 g	10.0 ml	•		•		
Run #2				·			

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	_
11097-69-1	Aroclor 1254 a	142	20	1.9	ug/kg	(3)
11096-82-5	Aroclor 1260 b	44.6	20 .	3.5	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	82%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	71%		26-1	42%	
2051-24-3	Decachlorobiphenyl	102%		32-1	53%	
2051-24-3	Decachlorobiphenyl	95%		32-1	53%	

(a) Reported from 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

(b) Report from 1st signal.

03/04/0°

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF65C Lab Sample ID:

Matrix:

N54554-43 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 82.9

Project:

RFP# 4229

General Chemistry

Method RL DF Analyzed Units **Analyte** Result

82.9 % 1 12/05/03 ASTM 4643-00 Solids, Percent

Client Sample ID: CDFF65B Lab Sample ID: N54554-44

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 82.2

Project: RFP# 4229

Run #1	File ID AB43582.D	DF 1	Analyzed 12/06/03	By OYA	Prep Date 12/04/03	Prep Batch OP15539	Analytical Batch GAB2138
Run #2							

	Initial Weight	Final Volume	
Run #1	30.1 g	10.0 ml	
Run #2			 1.00

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	_
11097-69-1	Aroclor 1254 a	293	20	2.0	ug/kg	(\mathfrak{Z})
11096-82-5	Aroclor 1260 a	79.2	20	3.6	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	81%		26-1	42%	
2051-24-3	Decachlorobiphenyl	103%		32-1	.53%	
2051-24-3	Decachlorobiphenyl	93%	X 3. 3.	32-1	.53%	

(a) Report from 1st signal.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated metholicans

N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF65B Lab Sample ID: N54554-44

General Chemistry

N54554-44

Matrix:

SO - Soil

Date Sampled: 12/02/03

By

Date Received: 12/03/03 Percent Solids: 82.2

Project:

Analyte

RFP# 4229

14 1 Ý

RL

Units

1 1 Analyzed DF ;

Method

Solids, Percent

82.2

Result

1

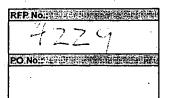
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12/04/03

TC EPA 160.3 M

APPENDIX A Chain of Custody Cornell-Dubilier Electronics Site





Removal Support Team EPA Contract 68-W-00-113

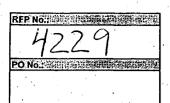
Phone: (732) 225-6116 Fax: (732) 225-7037

Matrix Box No.	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinsate	4. H₂SO₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other	*See Comments
(Specify)	

Send verbal an	d written results to:		Sı	uite 20	1, 1090		George	es Post ST Anal				837-37	03			• • • •	
					-:-				,				٠.,				
				:			i i	as an	ALYSI	S),		RCR	VANA	LYSIS			
Sample Humber	Sample Collection MM/DD/YY Time	Semple Matrix	Conc. Lovel. Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv.	VOA	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	OTHER		
COFFYIH	12/2/25 1222	5	L-	6	(X								
CAFF 64A	11 14/3				Ĺ	٠.	<u> </u>		X			' •					
COFFS6A	1416	*							\times								
CDFF48A	1 1424								\times	*, *							
CDFF54A	4/9					ļ		<u> </u>	\times						<u> </u>		
CDFF5SA	1428								X			·				٠.	
CDFF(6)	1444				1	ļ			X								
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CDFF 66	1437				_		<u>. </u>		\times							<u> </u>	
CD+F-404	1217	. 1			-				X							·	
CD+14XM	1 + 1215	'U.	+	4	1		· ·		$\dot{\propto}$		- ·				ĺ		
Comments:	TSHOULD TO	MSI)	/ E _ F	r C [) F F '	40A	D.W	aser) **						-	
Person Assumin	g Responsibility for	Sample	s:					-	•				Time/I	Date:	,		
Sample Number:	Relinquished by W	lise	. 1	Time:	5	Date: 12/5/	13	Receive	d by:	2			Reason	for Cha	nge of Cust	ody:	
Sample Number.	Relinquished by:	X		Time:		Date:		Receive	d by:		***	,	Reason	for Chai	nge of Cust	ody:	
Sample Number	Relinquished by:		T	Time:		Date:		Receive	d by:				Reason :	for Chai	nge of Cust	ody;	

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION





Removal Support Team EPA Contract 68-W-00-113

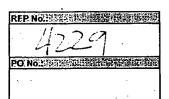
Phone: (732) 225-6116 Fax: (732) 225-7037

Matrix Box No.: >28%	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinsate	4. H₂SO₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other	*See Comments
(Specify)	

Send verbal and	d written results to:		S	Suite 20	1, 1090	ons, Inc. 0 King (a Sumb	Geörge					837-37	03	•				
· · · · · · · · · · · · · · · · · · ·		 			: 1				19 1102	-			<u> </u>					_
			·				A ST	RAS AN	IALYSI	S S		RCR	A ANA	LYSIS				
Sample Humber	Semple Collection MA/DD/YY Time	Sample Matrix	cone. Low-L Med-M High-H	Sumple Type Comp-C Grab-G	Sample Preserv.	VOA,	BNA	PEST	PCBs *	TAL	CN	IGN	con	REAC .	OTHER		The second second	
C() FF 42 A	12/2/3 12:30	5	4-	G	7				×			_					-	_
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COPF38A	1153								\times						ř.		- `.	_
CDFF65C	15/8								\times								• • • •	-
COFFUSD	4 1510	4	2	4					X	,			* .4. *				. 1	-
Comments:												*************************************						_
Person Assuming	g Responsibility for	Sample	es:							. •	,		Time/[Date:		 		
Sample Number: — 1	Relinquished by Man	w		Time: <i>[0 0</i>]	5	Date:	13	Receive	d by:	? <u>) </u>			Reason	for Char	nge of Custo	xdy:		
Sample Number; F	Relinquished by:			Time:		Date:		Receive	d-by:				Reason	for Char	ge of Custo	ıdy:		
Sample Number. F	Relinquished by:	,		Time:		Date:		Received	d by:	. •			Reason	for Chan	ge of Custo	dy:		

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION





Removal Support Team EPA Contract 68-W-00-113

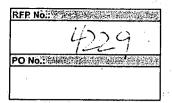
Phone: (732) 225-6116 Fax: (732) 225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na _z SO ₄
4. Rinsate	4. H₂SO₄
5. Soil/Sediment	5 Other (specify)
6 Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other	*See Comments
(Specify)	

Send verbal and	d written results to:		Weston Suite 20 Attentio	<mark>1, 109</mark> 0	King C	Seorge aly, RS	s Post ST Anal	Road, I ytical C	Edison oordin	, NJ 08 ator	837-37	03			•	,
						*							, ,			
				. :		, F	AS AN	ALYŠI	s i		RCR	A ANA	LYSIS			
Sample Humber	Sample Collection MAYDOYY Time	Sarriple Matrix Con- Luve Mad- High	Sumple L Type M Comp-C H Grab-G	Sample Preserv.	VOA	BNA	PEST	PCBs	TAL	CH	KGN	COR	REAC	OTHER		
COFF47A	14/2/03 1430	5.1	6	6				X								
COFFSYA	1407						<u> </u>	X								
COFF53AL	1341							\times			, 					-
(1) FF50 A	1354						-	\geq		<u> </u>						
COFFSIA	1 1359							\times		<u> </u>					<u>.</u>	
COFFGZA	1402		1					\sim		. ,						
COFF 6/A	1353			1	4			\times	2						· · · · · · · · · · · · · · · · · · ·	
OFFIC	1456						-	\geq							:	
CDFE51A	1411					, :		$\geq \leq$								
CDFF610	1501							\geq								
CAFAB	1452	4 4	4	4	<u>.</u>			\geq		ļ. ` <u>`</u>						· .
Comments:	Fo. MS/MS	SD.						•				•	7. T			
Person Assumin	g Responsibility fo	r Samples:						٠.				Time/l	Date:			
Sample Number:	Time:	5	Date: 12/5	103	Receive	ed by:				Reason	for Cha	nge of Custody	r .			
Sample Number: Relinquished by: Time:					Date:		Receive	ed by:				Reason	for Cha	nge of Custody	r.	
Sample Number: Relinquished by: Ti					Date:		Received by:		y:		Reason for Change of Custody:					

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION





Removal Support Team EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na₂SO₄
4. Rinsate	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other	*See Comments
(Specify)	

Send verbal an	d written results to:		5	Suite 20	1,109	ons, Inc. 0 King (ta Sumb	George	es Post ST Ana	Road, I lytical C	Edison, Coordin	, NJ 08 ator	837-37	03	•			
						y.									· .		
							F	RAS AN	NALYSI	s ·		RCR	A ANA	LYSIS			
Sample Number	Sample Collection MM/DDYYY Tame	Sample Matrix	Conc. Low-L Med-M High-H	Sample - Type Comp-C Grab-G	Sample Presery	VOA	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC '	OTHER		
CDAF52A	1740 35	5	L.	6	6	, .			X					·			
COFFY917	1 347	'		1	-1			<u> </u>	\times								
(C)FF57H	3:47				1:			J	\times						: .,		
COFFICIA	1 1254			,			,		X								
CDFF 45A	1 249		1			3			X								
(1) FF 44/A	- 1257								\times								
C) F75841	1405								\times								_
CDFF46A	1243		\perp						\times								
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CDFF43A	1 1236	4	Ą	1	4				X								
Comments:										vi v			(2.4			
Person Assuming	g Responsibility for	Sample	es:	: .									Time/[oate:			•
Sample Number:	Relinquished by: Dew Mai	u-		Time: 10 05		Date: 12/5/	, 50	Received	d by				Reason	for Chan	ge of Custody:	4.	
Sample Number:	Relinquished by:			Time:		Date:		Received	d by:			,	Reason	for Chan	ge of Custody:		
Sample Number:	Relinquished by:	<u>.</u>		Time		D-4				•	· · · · · ·		· ·				-
Tambel.	Confidence by	. :		Time:	_	Date:		Received	i by:				Reason	for Chan	ge of Custody:	•	

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

CORNELL - DUBILIER SITE 126 SPICER AVENUE SAMPLE POINTS

Sample Point	Longititude	Latitude
.CD-FF-33	-74.41394089	40.57513384
CD-FF-34	-74.41388768	
CD-FF-35	-74.41389757	40.57504111
CD-FF-36	-74.41393191	
CD-FF-37	-74.41395187	40.57491619
CD-FF-38	-74.41395848	40.57487828
CD-FF-39	-74.4140236	40.57486948
CD-FF-40	-74.41416066	40.57489761
CD-FF-41	-74.41417979	* · · · · · · · · · · · · · · · · · · ·
CD-FF-42	-74.41407953	40.57515934
CD-FF-43	-74.41416084	40.5752138
CD-FF-44	-74.41423524	40.57521333
CD-FF-45	-74.41423902	40.57525424
CD-FF-46	-74.41418033	40.57527004
CD-FF-47	-74.4143727	40.5750543
CD-FF-48	-74.4144281	40.57506401
CD-FF-49	-74.41431129	40.57530625
CD-FF-50	-74.41436927	40.57530083
CD-FF-51	-74.4143942	40.57534746
CD-FF-52	-74.41431935	40.57534556
CD-FF-53	-74.41424834	40.57519541
CD-FF-54	-74.41429992	40.57514027
CD-FF-55	-74.41434947	40.57508665
CD-FF-56	-74.4144719	40.57507563
CD-FF-57	-74.4144206	40.57512604
CD-FF-58	-74.41437101	40.57517894
CD-FF-59	-74.41432143	40.57523445
CD-FF-60	-74.41427775	40.57529095
CD-FF-61	-74.41439061	40.57527314
CD-FF-62	-74.41444282	40.57522176
CD-FF-63	-74.41449232	40.5751672
CD-FF-64 CD-FF-65	-74.41454132	
CD-FF-66	-74.41406926	40.57493601
CD-FF-67	-74.41438961	40.57504011
OD-CE-0/	-74.41434173	40.57532237

All sample points are listed in decimal degrees



REMOVAL SUPPORT TEAM EPA CONTRACT 68-W-00-113

Weston Solutions, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-225-6116 • Fax 732-225-7037
www.westonsolutions.com

OSC Copy

RST-02-F-01371

TRANSMITTAL MEMO

To:

Eric Wilson

Removal Action Branch, U.S. EPA Region II

From:

Jeralyn Guthrie, Data Reviewer

RST Region II

Subject:

Cornell Dubilier Electronics Site

Data Validation Assessment

Date:

February 16, 2004

The purpose of this memo is to transmit the following information:

• Data validation results for the following parameters:

PCBs

44 samples

Matrices and Number of Samples

Soil

44 samples

Sampling date:

December 02, 2003

The final data assessment narrative and original analytical data package are attached.

cc:

RST PM:

Dean Maser

RST SITE FILE TDD #:

02-03-11-0018

ANALYTICAL TDD #:

02-03-12-0006

PCS#

4229

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE:	<u>February 9, 2004</u>	
TO:	Eric Wilson USEPA Region II	
FROM:	Jeralyn Guthrie RST Data Review Tean	
SUBJECT:	QA/QC Compliance Re	
As requested quality examined and compares were evaluated	ared to EPA standards for	measures for the data packages noted have bee compliance. Measures for the following general
	Completeness	Blanks
	ra Matching Quality gate Spikes	DFTPP and BFB Tuning Chromatography
	x Spikes/Duplicates	Holding Times
Calibi		Compound ID (HSL, TIC)
Any statistical measu may be reviewed by	res used to support the foll others.	owing conclusions are attached so that the review
Summary of]	Results .	
	PCB	II III
A		
Acceptable as Submi Acceptable with Con		
Unacceptable, Action		
Unacceptable		
Data Reviewed by:	Jeralyn Guthri	e Date: <u>02/09/2004</u>
Approved By:	<u>Can</u>	Date: 2/13/2004
Area Code/Phone No	.:(732) 225-6116	

NARRATIVE

CASE No. <u>3154</u>

SITE NAME:	Cornell Dubilier Electron	ics Site		
	No. 126 Spicer Avenue, S	outh Plainfie	eld, New Jersey	· · · · · · · · · · · · · · · · · · ·
Laboratory Name:	Accutest Laboratories, 223	5 Route 130,	Dayton, New Jer	rsey 08810.
INTRODUCTION:				
The laboratory's por December 02, 2003.	tion of this Case consisted of	f <u>twenty-fou</u>	<u>r (44) soil</u> sample	es collected on
The laboratory report	ed no problem(s) with the re	eceipt of these	samples.	3
The laboratory report	ed a Minor problem with the	e analyses of_	PCB parameters.	
nave been assessed, b	nmented on the criteria speci ut no discussion is given wh rmed or require no comment s.	iere the evalu	ator has determine	ed that critoria
Appropriate Form I's appended to the data a	and Chain of Custody have bussessment narrative for refer	een copied fro	om the original dat	a package and
Pesticides/PCB				
	nt Performance Recovery d ID	Y Blanks Y Retenti Y Analyti	and Continuing Ca on Time Window ical Sequence eck for TCS and D	

Comments:

1. Refer to Data Assessment Narrative.

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE #_ RFP#4229 | SDG #_ N54554

LAB: <u>Accutest Laboratories</u>

SITE: Cornell Dubilier Electronics Site

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's

Signature:

Verified By:

CLP DATA ASSESSMENT

Client identification (ID) and laboratory ID numbers:

Client ID No.	Laboratory ID No.	Matrix
CDFF52A	N54554-1	Soil
CDFF49A	N54554-2	Soil
CDFF59A	N54554-3	Soil
CDFF60A	N54554-4	Soil
CDFF45A	N54554-5	Soil
CDFF44A	N54554-6	Soil
CDFF58A1**	N54554-7	Soil
CDFF46A	N54554-8	Soil
CDFF63A	N54554-9	Soil
CDFF53A	N54554-10	Soil
CDFF43A	N54554-11	Soil
CDFF47A	N54554-12	Soil
CDFF58A	N54554-13	Soil
CDFF53A1***	N54554-14	Soil
CDFF50A	N54554-15	Soil
CDFF51A	N54554-16	Soil
CDFF62A	N54554-17	Soil
CDFF61A	N54554-18	Soil
CDFF67C	N54554-19	Soil
CDFF57A	N54554-20	Soil
CDFF67D*	N54554-21	Soil
CDFF67B	N54554-22	Soil
CDFF41A*	N54554-23	Soil
CDFF64A	N54554-24	Soil
CDFF56A	N54554-25	Soil
CDFF48A*	N54554-26	Soil
CDFF54A	N54554-27	Soil
CDFF55A	N54554-28	Soil
CDFF66D	N54554-29	Soil
CDFF66C	N54554-30	Soil
CDFF66B	N54554-31	Soil
CDFF40A1****	N54554-32	Soil

^{*} Samples also collected for MS/MSD.

^{**} Sample CDFF58A1 is the Field Duplicate of Sample CDFF58A

^{***} Sample CDFF53A1 is the Field Duplicate of Sample CDFF53A

^{****} Sample CDFF40A1 is the Field Duplicate of Sample CDFF40A

Client identification (ID) and laboratory ID numbers (continued):

•		
Client ID No.	Laboratory ID No.	Matrix
CDFF40A	N54554-33	Soil
CDFF42A	N54554-34	Soil
CDFF33A	N54554-35	Soil
CDFF34A	N54454-36	Soil
CDFF37A	N54554-37	Soil
CDFF36A	N54554-38	Soil
CDFF35A	N54554-39	Soil
CDFF65D	N54554-40	Soil
CDFF39A	N54554-41	Soil
CDFF38A	N54554-42	Soil
CDFF65C	N54554-43	Soil
CDFF65B	N54554-44	Soil

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

TCL Data

<u>PCBs</u> - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

Sample ID Matrix Date Sampled Date Extracted VTSR at Lab Date Analyzed Qualifier #Compounds

Data met QC criteria.

Note: Continuous extraction of water samples must be started within seven (7) days of the date of collection. Soil/Sediment/Solid samples must be extracted within ten (10) days of collection. Extracts must be analyzed within forty (40) days of extraction.

2. BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method Blank Contamination

<u>PCBs</u> - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

Compound

Associated Samples

Data met OC criteria.

revised 2/12/92

B) Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

<u>PCBs</u> - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

Compound

Associated Samples

No field blanks were included with these analyses.

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

No mass spectrometric determinations were required for these sample analyses.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

A) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

<u>PCBs</u> - The following compounds were qualified as estimated "J" or rejected "R" in the associated samples because the linearity criteria or the percent relative standard deviation (%RSD) of the Initial Calibration is > 20% for either one or both GC columns:

Compound Percent Recovery Qualifier Associated Sample(s)

Data met QC criteria.

4. CALIBRATION (continued):

Continuing Calibration

<u>PCBs</u> - The following data were <u>not</u> qualified as estimated "J" in the associated samples because the percent difference (%D) of the Continuing Calibration is just outside specified QC Limits:

Fraction	Compound	Value exceeding OC Limits	Associated Sample(s)
PCB for "signal #2"	AR1016 peak A	24.2%D	CDFF48A, CDFF38A, CDFF65C, CDFF65B
PCB for "signal #2"	AR1016 peak D	21.2%D	. CDFF48A, CDFF38A, CDFF65C, CDFF65B

Note: The method-specified limit of <15% D for PCB continuing calibration was exceeded for two of the five quantitation peaks for Aroclor 1016 in one continuing calibration standard on 12/6/2003. This occurred on only one of the two chromatographic columns (i.e., signal #2). No qualifiers are required since any positive results in the four samples, bracketed by this CCV, were quantitated using the other column (signal #1) that was within control limits.

5. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

<u>PCBs</u> - The following compounds were either qualified as estimated "J" or rejected "R" due to Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) surrogate recoveries are both outside specified advisory QC limits:

<u>Surrogate</u>	Recovery		Qualifier	<u>Compounds</u>	Sample(s)
		,		,	

Data met QC criteria.

revised 2/12/92

6. COMPOUND IDENTIFICATION:

A) PESTICIDE FRACTION:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract. The percent difference (%D) of the positive results obtained on the two GC columns should be $\leq 25\%$. The following analytes in the samples shown were qualified because of compound identification:

<u>PCBs</u> - The following detected compounds were qualified due to a percent difference (%D) between the primary and confirmation columns > 25%:

Compound	<u>%D</u>	<u>Qualifier</u>	Sample(s)
Aroclor-1254 b	etween 25-50%	"]"	CDFF49A, CDFF44A, CDFF58A1, CDFF63A, CDFF53A, CDFF43A, CDFF47A, CDFF58A, CDFF50A, CDFF62A, CDFF55A, CDFF64A, CDFF33A, CDFF36A, CDFF39A, CDFF65C, CDFF65B
Aroclor-1260 be	etween 25-50%	" J "	CDFF64A, CDFF55A, CDFF38A

Note: During the initial calibration sequence, absolute retention times are determined for all single response pesticides, the surrogates, and at least three major peaks of each multi-component analyte. Windows are centered around the mean absolute retention time for the analyte established during the initial calibration. Analytes are identified when peaks are observed in the retention time window for the compound on both GC columns. Comparison of the sample retention times to the retention time windows established during the initial calibration revealed that no additional pesticide compounds were detected in the associated samples. In addition, no shifts for surrogate compound retention times were noted to occur that might require consideration of compounds outside respective retention time windows.

A) PESTICIDE FRACTION (continued):

<u>PCBs</u> - Due to professional judgement, the lower of two positive values generated by the laboratory from the primary and confirmation column analyses was used to report final results for the following pesticide compounds:

Compound

Primary Column Value

Confirmation Column Value

Note: The laboratory has consistently reported the higher of the two results from the two GC columns, unless a CCV recovery outlier indicated that one of the values was more appropriate to report. The RPD's between these results indicated acceptable precision, with the exceptions of those listed, and qualified, in the previous section. No further qualification or adjustments in the reported values were deemed necessary.

7. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

The laboratory indicated in the case narrative that samples, CDFF41A (N54554-23), CDFF48A (N54554-26), and CDFF67D (N54554-21) were used as the originals to prepare the duplicate matrix spikes.

PCBs - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

Original Sample

Spike Recovery

Qualifier

Compound(s)

No qualifiers are required based on high matrix spike recoveries for sample CDFF41A. No positive target compound results were reported in the original, unspiked sample. The other two sets of MS/MSD results were acceptable.

Note: The blank QC spike samples prepared undiluted and analyzed along with all three of the duplicate matrix spikes met all recovery and advisory accuracy criteria. In addition, the surrogate recovery results associated with the high matrix spike results were acceptable.

8. OTHER QC DATA OUT OF SPECIFICATION:

<u>PCBs</u> - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is >50% for aqueous samples, or >100% for soil/sediment samples:

Compound

<u>Matrix</u>

% RPD

Associated Field Duplicate Samples

Data met QC criteria.

Note: There were three sets of field duplicate pairs (CDFF40A / CDFF40A1, CDFF53A / CDFF53A1, and CDFF58A / CDFF58A1). The first pair listed had no target compounds detected and the other two pairs had Aroclor 1254 and Aroclor 1260 detected well within the RPD criteria.

The following soil/sediment/solid sample data (other than TCLP data) were either qualified as estimated "J" (% solids between 10-50%) or rejected "R" (% solids < 10%) because the sample contains more than 50% water:

Fraction

Percent Solids

Qualifier

Compounds Sample(s)

All % solids were > 50%.

The following compounds were qualified as estimated "J" in the indicated samples because the on-column amount of these compounds exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration Sequence:

Fraction

Sample(s)

Compound(s)

No qualification required; laboratory reported from dilution analyses when necessary.

9. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:

Due to professional judgement, the following compounds were not transferred from the indicated dilution sample analyses to the undiluted sample analyses because the reported values of these compounds are either diluted out in the associated dilution sample analyses or are qualified as non-detected "U" due to blank contamination QC criteria:

Fraction Compound

Dilution Sample(s)

Dilution Factor

The analysis report forms (Form 1s), provided by the laboratory, already show only the appropriate and specific compound results, as required, from the dilution analyses. Footnotes were also included to indicate which results were reported from a second, dilution run.

Due to professional judgement, the following positive data were rejected "R" due to possible carryover from a previous sample analysis that contained the compound(s) at high concentration(s):

Fraction

Sample Compound

Sample Compound
Concentration

Previous Sample
Compound Concentration

No data qualification.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None.

11. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

PCB Fraction:

Use Sample(s)

Do Not Use Sample(s)

Dilution results were already incorporated into a single version of the Form 1.

Organics Results
Work Tables
and
Qualified Form 1's

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #	#/CONCENTRAT	ΓΙΟΝ (μg/Kg)

and the first transfer transfer to the second of the party of the second	 				
	Method	Soil	Soil	Soil	Soil
PCBs	Detection	CDFF52A	CDFF49A	CDFF59A	CDFF60A
Low Concentration	Limit	N54554-1	N54554-2	N54554-3	N54554-4
Percent Moisture		16.7	20.7	25.1	23
Dilution Factor		1	1 2 200	1	1
Aroclor-1016	2.4	U	U	U	Ū
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	Ū	U
Aroclor-1242	2.9	. U	U.	U	U
Aroclor-1248	2.5	Ū	U	U	U
Aroclor-1254	1.6	336	543 J	357	1540 D
Aroclor-1260	2.9	98.7	193	115	366
,	dilution factor for				
	cmpds. with "D" fla	9			2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound

at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBLIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

t management and the second			SA	MPLE #	/CONC	ENTRATI	ON (µc	/Kg)	
PCBs Low Concentration	Method Detection Limit	Soil . CDFF45A N54554-5	•	Soil CDFF44A N54554-6	•.	Soil CDFF58A1 N54554-7		Soil CDFF46A N54554-8	
Percent Moisture		21		23.1		24:4		25.8	٠
Dilution Factor		. 1	٠.	. 1		· 1		1	
Aroclor-1016	2.4	U	٠,	U		U.		11	
Aroclor-1221	5.1	U		Ù				<u> </u>	
Aroclor-1232	3.8	U		U		Ü		<u> </u>	
Aroclor-1242	. 2.9	U	• ,•	Ü		Ü		11	
Aroclor-1248	2.5	Ú		Ū		U		11	
Aroclor-1254	1.6	224		325	J 、	204		1330	D
Aroclor-1260	2.9	86.9		141		73	<u>-</u>	457	
	dilution factor for cmpds. with "D" flag		-					2	
									

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

<u>.``</u>		SAMPLE #/CONCENTRATION (µg/Kg)
PCBs	Method Detection	Soil Soil Soil Soil CDFF63A CDFF53A CDFF43A CDFF47A
Low Concentration Percent Moisture	Limit	N54554-9 N54554-10 N54554-11 N54554-12 24.1 22 25.3 21.8
Dilution Factor	<u> </u>	<u> </u>
Aroclor-1016	2.4	
Aroclor-1221	5.1	U
Aroclor-1232	3.8	U U U
Aroclor-1242	2.9	· U · · · · · · · · · · · · · · · · · ·
Aroclor-1248	2.5	U U U
Aroclor-1254	1.6	140 J 285 J 303 J 88.6 J
Aroclor-1260	2.9	62 109 164 41.6

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

			SAMPLE #/CONC	ENTRATION (ug/Kg)
•	Method	· Soil	Soil	Soil	Soil
PCBs	Detection	CDFF58A	CDFF53A1	CDFF50A	CDFF51A
Low Concentration	Limit	N54554-13	N54554-14	N54554-15	N54554-16
Percent Moisture		25	20.5	22.6	22.4
Dilution Factor		1.	1	1	1
Aroclor-1016	2.4	U	U	· U	U
Aroclor-1221	5.1.	U	U	(U	U
Aroclor-1232	3.8	· U.	U	U	Ū
Aroclor-1242	2.9	U	U	U	. U
Aroclor-1248	2.5.	U	U	U	U
Aroclor-1254	1.6	146 J	• 272	324 J	797
Aroclor-1260	2.9	54	97.7	124	240

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound

at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

2.9

115

SAMPLING DATE: DECEMBER 2, 2003

				SAMPLE #/CC	JNC	ENTRATION	μg/Kg)	•
PCBs Low Concentration	Method Detection Limit		Soil CDFF62A N54554-17	Soil CDFF61A N54554-18		Soil CDFF67C N54554-19	Soil CDFF57A N54554-20	···
Percent Moisture			25.5	20.4		14.9	26.3	
Dilution Factor			1	1	. :	-1.	1	
Aroclor-1016	1.	2.4	U	U		Ū	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Aroclor-1221		5.1	U	U				
Aroclor-1232		3.8	U	U		U.		
Aroclor-1242		2.9	U	U	-+	· Ŭ		
Aroclor-1248	* *	2.5	U	· · · · · · · · · · · · · · · · · · ·			<u></u>	
Aroclor-1254		1.6	346 J	.: 323		322	283	
			<u></u>	····		<u> </u>	.203	J

136

95

124

Aroclor-1260

D-result from dilution analysis

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

4				/Kg)						
PCBs Low Concentration	· ·	Method Detection Limit	Soil CDFF67D N54554-21		Soil CDFF67I N54554-2	-	Soil CDFF41 N54554-2	-	Soil CDFF64A N54554-24	
Percent Moisture			20.2		12.6		21.6		23	
Dilution Factor			11 .		1		1		1	
Aroclor-1016		2.4	U		U		TU TU		···U	 .
Aroclor-1221	•	5.1	U		· U		U	<u>-</u>	U U	
Aroclor-1232		. 3.8	U	2	U		U		Ū	
Aroclor-1242		2.9	U		U		· U		Ü	
Aroclor-1248		2.5	· U		U		U		Ū.	
Aroclor-1254	,	1.6	214		336	,	U	¥	198	.]
Aroclor-1260		2.9	57		. 109		U		91.3	_

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

	Method	Soil	Soil	Soil	Soil								
PCBs	Detection	CDFF56A	CDFF48A	CDFF54A	CDFF55A								
Low Concentration -	Limit	N54554-25	N54554-26	N54554-27	N54554-28								
Percent Moisture	The second of the	22.7	23.6	23.8	24.8								
Dilution Factor	·	1 .	1	1	1								
Aroclor-1016	2.4	U	.U	, U	U								
Aroclor-1221	5.1	U	U '	U	Ų								
Aroclor-1232	. 3.8	U	Ū	U	- U								
Aroclor-1242	2.9	U	· U	U	: U								
Aroclor-1248	2.5	U	U.	U	. U								
Aroclor-1254	.1.6	251	75.3 J	267	180 J								
Aroclor-1260	2.9	134	31.3	147	94.2 J								
					····								

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

)					SAMPLE #/CONCENTRATION (µg/Kg)										
PCBs		Method Detection		Soil CDFF66	D	Soil CDFF66C		Soil .CDFF66B	Soil CDFF40A1							
Low Concentration	1. 1.	Limit		N54554-2		N54554-30) .	N54554-31	N54554-32							
Percent Moisture				19.2		16.8		18.1	20.9							
Dilution Factor				1		1		1	. 1							
Aroclor-1016	,		2.4	U		Ü		. U	Ü	.=						
Aroclor-1221		~•	5.1	Ų		Ū	,	U	- U							
Aroclor-1232			3.8	U		U ·		Ü	Ü							
Aroclor-1242			2.9	Ū		U .	1:	U	U							
Aroclor-1248		•	2.5	Ū		U		. U	Ü							
Aroclor-1254			1.6	124		454		1860	D U							
Aroclor-1260			2:9	41.7	• • • • • • • • • • • • • • • • • • • •	165		625	. · · · U							
		dilution facto	or for			•										
•		cmpds. with	"D" flag					4								

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound .

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

	SAMPLE #/CONCENTRATION (µg/Kg)													
PCBs	Method Detection	Soil CDFF40A		Soil CDFF42A		Soil CDFF33A	Soil CDFF34A							
Low Concentration	Limit	N54554-33		N54554-34		N54554-35	N54554-36							
Percent Moisture		22.7	**	23.1	:	20.2	22.9							
Dilution Factor		1	. :	1		1	1							
Aroclor-1016	2.4	U	٠,	U	·	Ü	 							
Aroclor-1221	5.1	U		U		U .	U							
Aroclor-1232	3.8	U	ſ	U		U	Ü							
Aroclor-1242	2.9	U	· · ·	. U		U U	11 ,							
Aroclor-1248	2.5	U		· U		U	11							
Aroclor-1254	1.6	U		457	J	264 J	485							
Aroclor-1260	2.9	U		138		96.3	180							

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

		SAMPLE #/CONCENTRATION (µg/Kg)												
PCBs Low Concentration	Method Detection Limit		Soil CDFF37A N54554-37	- 1	Soil CDFF36A N54554-38		Soil CDFF35 <i>A</i> N54554-3		Soil CDFF65D N54554-40					
Percent Moisture		•	24.1		29.4		25.1	- 1	13.9					
Dilution Factor .	•		1		1	•	. 1		1					
Aroclor-1016		2.4	U		·, U		: U		Ü					
Aroclor-1221		5.1	U		U		U							
Aroclor-1232		3.8	U	:	U		U.		· · · · · ·					
Aroclor-1242		2.9	U		U	•	U		. 11	<u>·</u>				
Aroclor-1248		2.5	U		U		U		<u>_</u>					
Aroclor-1254		1.6	664		468	J	652		112					
Aroclor-1260		2.9	217	7	142		209	***************************************	7 Ü					

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

		·	· :		SAMPLE #/CONCENTRATION (µg/Kg)											
PCBs Low Concentration		The second secon					Soil DFF38 54554-	· · ·	CI	-		Soil CDFF65B 154554-44				
Percent Moisture	-			21.1	î.,	•	29.4			17.1		· · ·	17.8	•		
Dilution Factor				1			1			. 1			1			
Aroclor-1016			2.4	U			U ·	· <u>·</u> ·······		Ū			·····			
Aroclor-1221			5.1	U			U			u.			11			
Aroclor-1232			3.8	, U			Ū			· Ū						
Aroclor-1242	•.		- 2.9	U			U			- U		·	<u>.</u>			
Aroclor-1248			2.5.	; U			U			U			<u>_</u>			
Aroclor-1254		1	1.6	296	J		884			142			293			
Aroclor-1260		1	2.9	182			171	J.		44.6	· · ·		79.2			

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

D-result from dilution analysis

Chain of Custody Records and Laboratory Case Narrative

SDG Narrative Accutest Laboratories Job #N54554

(ORGANIC FRACTION)

The samples in this SDG were received at Accutest Laboratories for analysis by SW846 8082 for PCB methodology.

All samples were analyzed within holding times.

GC Semi-volatile Fraction:

- Instrument Model: HP5890/dual ECD
- Column: DB-5 30m x 0.32mm x 0.25um/DB-1701 30m x 0.32mm x 0.25um
- There are no anomalies to report.
- Samples N54554-4, -8, and -31 were diluted further because certain compounds in the original runs were outside of the calibration range.
- Samples N54554-26 (OP15539), N54554-23 (OP15535) and N54554-21 (OP15534) were used as the matrix spike (MS) and matrix spike duplicates (MSD).
- In the OP15535-MS/MSD, recoveries for Aroclor 1016 and Aroclor 1260 are outside control limits due to possible matrix interference. Refer to batch associated blank spike.

(INORGANIC FRACTION)

On the general chemistry fraction:

- The samples were analyzed for general chemistry parameters following the methodologies in this data package.
- All samples were analyzed within holding time.
- Matrix spike (MS) and duplicates (DUP) are not analyzed by this procedure.

Qualifiers possibly reported on the target compound list for all fractions:

- "ND" indicating compound was analyzed but not detected,
- "J" indicating estimated value where the concentration is less than the reporting limit,
- "E" indicating estimated value where the concentration exceeds calibration range, and
- "B" indicating compound is found in associated method blank as well as in the sample.

I certify that that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette, has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kevin Dovedytis

1 Varly

Report Generation Technician



Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037 NSYSSY newsed

1. Surface	1. HCL
2. Ground water	2. HNO,
3. 1eachate	3. No ₂ 80 ₆
4. Rinaste	4. H.SO.
S. Soil/Sediment	5 Other (apacity)
e on	8, Ica Onty
7. Waste	N. Not preserved
8. Other	"See Comments
(Specify)	·

Send verbal and written	results to:		Veston S Sulte 201 Attention	, 109	0 King G	Seorge	s Post ST Ana	Road, I	Edison, Coordin	NJ 08	837-37	03			
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Weston Solutions, Inc. FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.



Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037

N545	54 mira
1. Surisce	1. HCL
2. Ground weter	2 HNO,
3. Leachete	3. Ne ₂ SO ₄
4. Rinsule	4. H ₆ 60,
5. Soil/Sediment	5 Other (specify)
6. Ot	6. tca Only
7. Waste	N. Not preserved
8. Other	See Comments
(Specify)	

Send verbal an	d written results to:		5	Veston Suite 20 Attentio	n, 1090	i King (George	es Post ST Ane	Road, I	Edison Coordin	, NJ 06 ator	837-37	'03		
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Weston Solutions, Inc.

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Removal Support Team
EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

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Of the Land State of the Land	
1. Surface	1.HCL
2. Ground water	2 HNO ₃
3. Leachale	2 Ne.90.
4. Rinsete	4. H, 50,
5, SolfSedment	5 Other (specify)
6. Og	6. loe Onty
7. Waste	N. Not preserved
8. Other	*6ee Comments
(Specify)	

	Send verbal and	d written results to:		Veston (Suite 20 Attention	1, 1090) King (3eorge	s Post ST Anai	Road, f	dison, cordin	NJ 08	B 37- 37	03			
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刘	CDFF48A	1. 1424		111	1			.7	X							
	CDFF3411	[4/9]							X							
	CDFF5SA	1428				·	<u> </u>		X							
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Weston Solutions, Inc. FEDERAL PROGRAMS DIVISION

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Removal Support Team EPA Contract 68-W-00-113 Phone: (732) 225-6116 Fax: (732) 225-7037

N54	554 nevr
1. Buriace	1. HCL
2. Ground water	2 HNO ₃
3. Leachese	3. N> ₇ 9O ₄
4. Rinsate	4. H ₁ SO ₄
5. Solt/Sediment	9 Other (specify)
5 Ot	5. Ice Only
7. Waste	N. Not preserved
8 Other	*See Conwents
(Specify)	

Send verbal an	d written results to:	•	5	Sulte 20	1, 109	ons, Inc. O King (a Sumb	George	s Post ST Ana	Road, I	Edison Coordin	, NJ 08 ator	837- 37	703			
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DFF42A	12/2/11/30	5	L	G	15				X							· · · · · · · · · · · · · · · · · · ·
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COFF37A	1 11:35	į	1		j	, , , , , , , , , , , , , , , , , , ,			×		1					
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All The Part of th	~ 'III /I	ser		Time: 100.	5	12/5/	13	Receive	d by:	2)			Reason	for Cher	nge of Custod	y:
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imple Number:	Reinquished by:			Times		Dete:		Receive	i by:	• •			Reason	for Chan	ge of Custod	r.

Wester Solutions, Inc. FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

Client Sample ID: CDFF52A

Lab Sample ID:

N54554-1

Matrix:

SO - Soil

Method: Project:

SW846 8082 SW846 3550B

RFP# 4229

Date Sampled:

12/02/03

Date Received:

12/03/03

Percent Solids: 83.3

D #1	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47967.D	1	12/09/03	OYA .	12/03/03	OP15534	GEF2410
Run #2							

Initial Weight Final Volume 30.3 g Run #1 10.0 ml Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	•
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	•
11097-69-1	Aroclor 1254	. 336	20	1.9	ug/kg	. •
11096-82-5	Aroclor 1260	98.7	20	3.5	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Limi	ts	. •
877-09-8	Tetrachloro-m-xylene	87%		26-14	17%	
877-09-8	Tetrachloro-m-xylene	90%		26-14		
2051-24-3	Decachlorobiphenyl	95%		32-1		
2051-24-3	Decachlorobiphenyl	91%		32-1		
	• •	-04000000000000000000000000000000000000	93 . *	J2 1.	,,,,	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method hank

Client Sample ID: CDFF52A

Lab Sample ID: N54554-1 Matrix:

Date Sampled: 12/02/03 SO - Soil Date Received: 12/03/03 Percent Solids: 83.3

Project: RFP# 4229

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Percent	83.3		%	1	12/04/03	TC	EPA 160.3 M

Client Sample ID: Lab Sample ID: Matrix: Method: Project:	CDFF49A N54554-2 SO - Soil SW846 8082 RFP# 4229	SW846 3550B	\$ \$	Date Sampled: Date Received Percent Solids	12/03/03	
File ID Run #1 EF4790 Run #2		Analyzed 12/09/03	By		Prep Batch OP15534	Analytical Batch GEF2410

Initial Weight Final Volume Run #1 30.2 g 10.0 ml Run #2

PCB List ,

,						
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	•
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	. *
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	٠,
11097-69-1	Aroclor 1254	543	21	2.0	ug/kg	\mathcal{J}
11096-82-5	Aroclor 1260	193	21	3.7	ug/kg	*.J.
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	85%		26-1	42%	***
877-09-8	Tetrachloro-m-xylene	90%		26-1	42%	
2051-24-3	Decachlorobiphenyl	94%		32-1	53%	· · · ,
2051-24-3	Decachlorobiphenyl	95%		32-1	53%	
	· ·					

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value...
B = Indicates analyte found in associated regod blank

Page 1 of 1

Client Sample ID: CDFF49A Lab Sample ID: N54554-2 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 79.3

RFP# 4229 Project:

General Chemistry

Analyte		Result	RL	Units	DF	Analyzed	Ву	Method	
Solids, Percent	•.	79.3		%	1	12/04/03	TC	EPA 160.3 M	

Client San Lab Samp Matrix: Method: Project:	nple ID: CDFF5 ble ID: N54554 SO - So SW846 RFP# 4	-3 	846 3550B			ed: 12/02/03 ed: 12/03/03 ds: 74.9	
Run #1 Run #2	File ID EF47969.D	DF 1	Analyzed 12/09/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2410
Run #1 Run #2	Initial Weight 30.6 g	Final Vol 10.0 ml	ume				
PCB List							

							٠.
CAS No.	Compound		Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016		ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221		ND	22	6.6	ug/kg	٠.
11141-16-5	Aroclor 1232		ND	22	5.0	ug/kg	``
53469-21-9	Aroclor 1242		ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248		ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254		357	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	A .	115	22	3.9	ug/kg	٠.
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Limi	ts	
877-09-8	Tetrachloro-m-xylene		82%		26-14	1 2 6 <u>7</u>	•
877-09-8	Tetrachloro-m-xylene		86%		26-14		
2051-24-3	Decachiorobiphenyl		94%		32-1		
2051-24-3	Decachlorobiphenyl		95%	•	32-1.		
					÷.		

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF59A

Lab Sample ID: N54554-3 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.9

Project: RFP# 4229

General Chemistry

Analyte	Re	esult RL	Units	DF	Analyzed	194	By	Method
Solids, Percent	. 74	.9	%	1	12/04/03		TC	EPA 160.3 M



Client Sample ID: CDFF60A

Lab Sample ID: Matrix:

Method:

N54554-4

SO - Soil SW846 8082 SW846 3550B

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 77.0

RFP# 4229 Project:

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47970.D	1	12/09/03	OYA:	12/03/03	OP15534	GEF2410
Run #2	EF47986.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

		Initial Weight	Final Volume		ye 1.	,	·	
		30.1 g	10.0 ml	والإستان الأرادي	•		e e	
*	Run #2	30.1 g	10.0 ml	:				. '

PCB List

CAS No.	Compound	Result	RL	MDL	Units	0
0.15 1.01	Compound	, itcour	ICD .	MIDL	Omis	·
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22 -	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	·
11097-69-1	Aroclor 1254	1540 a	43	4.2	ug/kg	(D)
11096-82-5	Aroclor 1260	366	22	3.8	ug/kg	, ,
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	83 %	86%	26-1	42%	
877-09-8	Tetrachloro-m-xylene	88%	88%	26-1	42%	
2051-24-3	Decachlorobiphenyl	97%	116%	32-1	53%	•
2051-24-3	Decachlorobiphenyl	101%	109%	32-1	53%	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF60A Lab Sample ID: N54554-4 Date Sampled: 12/02/03
Date Received: 12/03/03 Matrix: SO - Soil Percent Solids: 77.0

RFP# 4229 Project:

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By Method
Solids, Percent	77	·	%	1	12/04/03	TC EPA 160.3 M

Client Sample ID: CDFF45A Lab Sample ID: N54554-5

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Percent Solids: 79.0

Project:

RFP# 4229

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 EF47971.D 1 12/09/03 OYA 12/03/03 OP15534 GEF2410

Run #2

Initial Weight Final Volume
Run #1 30.1 g 10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	•
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	·).
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254.	224	21	2.1	ug/kg	
	Aroclor 1260		21	3.7	ug/kg	
	in the second se					
CACNA	C	YD # 4	T 11		• •	

iriogate Necoveries	Kull# 1 Kull# 2	Limits
etrachloro-m-xylene	83%	26-142%
	84%	26-142%
ecachlorobiphenyl	88%	32-153%
ecachlorobiphenyl	98%	32-153%
	etrachloro-m-xylene etrachloro-m-xylene ecachlorobiphenyl ecachlorobiphenyl	etrachloro-m-xylene 83 % etrachloro-m-xylene 84 % ecachlorobiphenyl 88 %

00/04/04

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value...

B = Indicates analyte found in associated act od blank

Page 1 of 1

Client Sample ID: CDFF45A

Lab Sample ID: N54554-5 Matrix: SO - Soil Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 79.0

Project: RFP# 4229

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	 79		%	1	12/04/03	тс	EPA 160.3 M

07/06/01

 Client Sample ID:
 CDFF44A

 Lab Sample ID:
 N54554-6
 Date Sampled:
 12/02/03

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082 SW846 3550B
 Percent Solids:
 76.9

Project: RFP# 4229

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 EF47974.D 1 12/10/03 OYA 12/03/03 OP15534 GEF2410
Run #2

Initial Weight Final Volume
Run #1 30.6 g 10.0 ml
Run #2

.

PCB List

				*	No. 1		
CAS No.	Compound	Result	RL	MDL	Units	Q	
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	; .	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg		
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg		
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg		
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg		
11097-69-1	Aroclor 1254	325	21	2.1		(3)	
11096-82-5	Aroclor 1260	141	21	3.8	ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	* f x .	
877-09-8	Tetrachloro-m-xylene	85%		26-1	42%		
877-09-8	Tetrachloro-m-xylene	87%		26-1	42%	:	
2051-24-3	Decachlorobiphenyl	100%	· ·	32-1	53%		
2051-24-3	Decachlorobiphenyl	98%		32-1	53%	•	

1000

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated mathematical blank

Page 1 of 1

Client Sample ID: CDFF44A

Lab Sample ID: N54554-6 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 76.9

Project: RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 76.9 % 1 12/04/03 TC EPA 160.3 M



Client Sample ID: CDFF58A1

Lab Sample ID: N54554-7 Matrix: SO - Soil

Method:

RFP# 4229

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 75.6

DF Analyzed Вy **Prep Date Prep Batch** Analytical Batch File ID Run #1 EF47975.D 12/10/03 OYA 12/03/03 OP15534 GEF2410

Run #2

Project:

Final Volume **Initial Weight**

Run #1 30.1 g 10.0 ml

Run #2

PCB List

ompound		Result	RL	MDL	Units	Q
roclor 1016		ND	22	3.2	ug/kg	,
roclor 1221		ND	22	6.7	ug/kg	
roclor 1232	<i>.</i>	ND	22	5.0	ug/kg	
roclor 1242		ND	22	3.8	ug/kg	
roclor 1248		ND	22	3.3	ug/kg	,
roclor 1254		204	22	2.2	ug/kg	$\gamma(J)$
roclor 1260	• . •	73.0	22	3.9	ug/kg	<i></i>
urrogate Recoveries		Run# 1	Run# 2	Lim	its	
	roclor 1221 roclor 1232 roclor 1242 roclor 1248 roclor 1254 roclor 1260	roclor 1016 roclor 1221 roclor 1232 roclor 1242 roclor 1248 roclor 1254 roclor 1260	roclor 1016 ND roclor 1221 ND roclor 1232 ND roclor 1242 ND roclor 1248 ND roclor 1254 204 roclor 1260 73.0	roclor 1016 ND 22 roclor 1221 ND 22 roclor 1232 ND 22 roclor 1242 ND 22 roclor 1248 ND 22 roclor 1254 204 22 roclor 1260 73.0 22	roclor 1016 ND 22 3.2 roclor 1221 ND 22 6.7 roclor 1232 ND 22 5.0 roclor 1242 ND 22 3.8 roclor 1248 ND 22 3.3 roclor 1254 204 22 2.2 roclor 1260 73.0 22 3.9	roclor 1016 ND 22 3.2 ug/kg roclor 1221 ND 22 6.7 ug/kg roclor 1232 ND 22 5.0 ug/kg roclor 1242 ND 22 3.8 ug/kg roclor 1248 ND 22 3.3 ug/kg roclor 1254 204 22 2.2 ug/kg roclor 1260 73.0 22 3.9 ug/kg

C/10 / (0.	bull oguit Recoveries	10011// 1	14411/1/2	Dimits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	89%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobinhenyl	100%	• •	32-153%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit J = Indicates an estimated value

B = Indicates analyte found in associate method blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF58A1 Lab Sample ID: N54554-7 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 75.6

RFP# 4229 Project:

General Chemistry

Analyte	Result	RL.	Units DF	Analyzed By	Method
Solids, Percent	75.6		, % 1	12/04/03 тс	EPA 160.3 M

Client Sample ID: CDFF46A

Lab Sample ID:

N54554-8

Date Sampled: 12/02/03

Date Received: 12/03/03

Matrix: Method: SO - Soil SW846 8082 SW846 3550B

Project:

RFP# 4229

Percent Solids: 74.2

1	
Run	#1 ·
Run	#2

File ID EF47976.D EF47987.D Analyzed 12/10/03 12/10/03

By OYA OYA Prep Date 12/03/03 12/03/03

Prep Batch OP15534 OP15534

Analytical Batch GEF2410 **GEF2410**

	. :		*** * * .
i .		Initial	Weight

30.7 g 30.7 g

Final Volume 10.0 ml $10.0 \, ml$

DF

1

2

Run #2 PCB List

Run #1

CAS No.	Compound	Result	, RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22 ·	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	1330 a	44	4.3	ug/kg	(1)
11096-82-5	Aroclor 1260	457	22	3.9	ug/kg	. &
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	nits ,	
877-09-8	Tetrachloro-m-xylene	81%	83 %	26-1	142%	
877-09-8	Tetrachloro-m-xylene	88%	92%	3000000	42%	
2051-24-3	Decachlorobiphenyl	92%	108%	887988	53%	
2051-24-3	Decachlorobiphenyl	83%	99%	00000000	153%.	

(a) Result is from Run# 2

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in-associated mathod blank

Client Sample ID: CDFF46A Lab Sample ID: N54554-8 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.2

Project: RFP# 4229

General Chemistry

Analyte	Result RL Units	DF Analyzed	By Method
Karamatan Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn			
Solids, Percent	74.2 %	1 12/04/03	TC EPA 160.3 M

Client Sample ID:	CDFF63A	2, 1	•		
Lab Sample ID:	N54554-9			Date Sampled: 12/02/03	
Matrix:	SO - Soil		•	Date Received: 12/03/03	
Method:	SW846 8082	SW846 3550B		Percent Solids: 75.9	٠ ,٠ ,٠ .
Project:	RFP# 4229				
				<u> </u>	<u> </u>

Run #1 EF47988.D 1 12/10/03 OYA 12/03/03 OP15534 GEF2410 Run #2		File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2		EF47988.D	· 1	12/10/03	OYA	12/03/03	OP15534	GEF2410
	Run #2	80 4	· · · · · · · · · · · · · · · · · · ·					

Run #1	Initial Weight 30.8 g	Final Volume 10.0 ml	•		
Run #2	· <u> </u>				

PCB List

2051-24-3

2051-24-3

CAS No.	Compound	Result	RL_	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	,	ND	21 :	3.2	ug/kg	
11097-69-1	Aroclor 1254	140	21	2.1	ug/kg	3
11096-82-5	and the second s	62.0	21	3.8	ug/kg	· (9).
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lin	uits	
877-09-8	Tetrachloro-m-xylene	85%		26-	142%	•
877-09-8	Tetrachloro-m-xylene	87%			142%	

101%

96%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

Decachlorobiphenyl

J = Indicates an estimated value

32-153%

32-153%

B = Indicates analyte found in associated mass blank

Client Sample ID: CDFF63A

Lab Sample ID: N54554-9 Matrix: SO - Soil

Date Sampled: 12/02/03
Date Received: 12/03/03

Percent Solids: 75.9

Project: RFP# 4229

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By Method
Solids, Percent	75.9		%	1	12/04/03	TC EPA 160.3 M

02/06

Client San Lab Samp Matrix: Method: Project:	· ·	Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 78.0
Run #1 Run #2	File ID DF Analyzed By EF47989.D 1 12/10/03 OYA	Prep Date Prep Batch Analytical Batch 12/03/03 OP15534 GEF2410
Run #1 Run #2	Initial Weight Final Volume 30.0 g 10.0 ml	
PCB List		

CAS No.	Compound	Result	RL	MDL Units Q
12674-11-2	Aroclor 1016	ND	21	3.1 ug/kg
11104-28-2	Aroclor 1221	ND	21	6.5 ug/kg
11141-16-5	Aroclor 1232	ND	21	4.9 ug/kg
53469-21-9	Aroclor 1242	ND	21	3.7 ug/kg
12672-29-6	Aroclor 1248	ND	21	3.2 ug/kg
11097-69-1	Aroclor 1254	285	21	2.1 ug/kg
11096-82-5	Aroclor 1260	109	21	3.8 ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	92%		32-153%
2051-24-3	Decachlorobiphenyl	92%		32-153%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value ...

B = Indicates analyte found in associated medical blank

Page 1 of 1

Client Sample ID: CDFF53A Lab Sample ID: N54554-10

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 78.0

General Chemistry

Analyte	Result	RL	Units DF	Analyzed	Ву	Method
Solids, Percent	78		% 1	12/04/03	тс	EPA 160.3 M

	Initial W		Cinal Va			. н.		
Run #2	22 17550			12,10,03		12/03/03	OI 15554	OLI 2410
Run #1	File ID EF47990		OF	Analyzed 12/10/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2410
Method: Project:		SW846 80 RFP# 422		846 3550B		Percent Solid	s: 74.7	
Matrix:		O - Soil		. ,		Date Received	•	•
Lab Samp	ple ID:	N545 54 -1	1 .			Date Sample	i: 12/02/03	
Client Sar	mple ID: (CDFF43A				A Company of the Comp	4.	

•	Initial Weight	Final Volume				_
Run #1	30.6 g	10.0 ml	**			
Run #2				·	 	

PCB List

•	· · · · · · · · · · · · · · · · · · ·				
Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	22	3.1	ug/kg	
Aroclor 1221	ND	22	6.6		100
Aroclor 1232	ND	22	5.0		
Aroclor 1242	ND	22	3.8		
Aroclor 1248	· ND	22	3.3		
Aroclor 1254	303	22	2.1		(3)
Aroclor 1260	164	22	3.9	ug/kg	
Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
Tetrachloro-m-xylene	66%		26-1	42%	
•	240000000000000000000000000000000000000				r
Decachlorobiphenyl	85%				
Decachlorobiphenyl	84%				
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 303 Aroclor 1260 164 Surrogate Recoveries Run# 1 Tetrachloro-m-xylene 66% Tetrachloro-m-xylene 81% Decachlorobiphenyl 85%	Aroclor 1016 ND 22 Aroclor 1221 ND 22 Aroclor 1232 ND 22 Aroclor 1242 ND 22 Aroclor 1248 ND 22 Aroclor 1254 303 22 Aroclor 1260 164 22 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene 66% Tetrachloro-m-xylene 81% Decachlorobiphenyl 85%	Aroclor 1016 ND 22 3.1 Aroclor 1221 ND 22 6.6 Aroclor 1232 ND 22 5.0 Aroclor 1242 ND 22 3.8 Aroclor 1248 ND 22 3.3 Aroclor 1254 303 22 2.1 Aroclor 1260 164 22 3.9 Surrogate Recoveries Run# 1 Run# 2 Lim Tetrachloro-m-xylene 66% 26-1 Tetrachloro-m-xylene 81% 26-1 Decachlorobiphenyl 85% 32-1	Aroclor 1016 ND 22 3.1 ug/kg Aroclor 1221 ND 22 6.6 ug/kg Aroclor 1232 ND 22 5.0 ug/kg Aroclor 1242 ND 22 3.8 ug/kg Aroclor 1248 ND 22 3.3 ug/kg Aroclor 1254 303 22 2.1 ug/kg Aroclor 1260 164 22 3.9 ug/kg Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 66% 26-142% Tetrachloro-m-xylene 81% 26-142% Decachlorobiphenyl 85% 32-153%



ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated media blank

Client Sample ID: CDFF43A Lab Sample ID: N54554-11 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.7

Project: RFP# 4229

General Chemistry

Analyte	· .	Result	RL	Units	DF	Analyzed	By Method
	•						
Solids, Percent	٠.	74.7	4496	%	1 -	12/04/03	TC EPA 160.3 M

02/04/04

Client Sample ID: CDFF47A

Lab Sample ID:

N54554-12

Matrix: Method: SO - Soil .

SW846 8082 SW846 3550B

Date Sampled: 12/02/03

Date Received: 12/03/03

Analyzed

12/12/03

Percent Solids: 78.2

Project:

RFP# 4229

File ID DF EF48063.D

Вy OYA **Prep Date** 12/03/03

Prep Batch OP15534

Analytical Batch

GEF2413

Run #1 Run #2

> **Initial Weight** Final Volume

Run#1 Run #2

30.0 g

10.0 ml

PCB List

2051-24-3

2051-24-3

TCD List						•
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	, ND	21	3.1	ug/kg	٠.
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	88.6	21	2.1	ug/kg	(J):
11096-82-5	Aroclor 1260	41.6	21	3.8	ug/kg	. 9
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	uits	• .
877-09-8	Tetrachloro-m-xylene	83%	•	26-1	42%	
877-09-8	Tetrachloro-m-xylene	80%		26-1	42%	

98%

94%



32-153%

32-153%

Decachlorobiphenyl

Decachlorobiphenyl

N = Indicates presumptive evidence of a compound

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated methodolank

Page 1 of 1

Client Sample ID: CDFF47A

Lab Sample ID: N54554-12

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 78.2

Analyte	Result R	ar A	Units	DF Ana	lyzed By	Method
Solids, Percent	 78.2		%	1 12/0)4/03 TC	EPA 160.3 M

Client San Lab Samp Matrix: Method: Project:	le ID: N545 SO - SW84		V846 3550B		Date Sampl Date Receiv Percent Soli	ed: 12/03/03	
Run #1 Run #2	File ID EF48064.D	DF 1	Analyzed 12/12/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413
Run #1 Run #2	Initial Weigh 30.5 g	t Final V 10.0 ml					
PCB List	Compound	5 1 1 W					

•	e de la companya de		•		_	٠. ٠	
CAS No.	Compound	Result	RL	MDL	Units	Q	
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg		
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg		
11141-16-5	Aroclor 1232	NĐ	22	5.0	ug/kg		
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg		•
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg		
11097-69-1	Aroclor 1254	146	22	2.1	ug/kg	(f)	
11096-82-5	Aroclor 1260	54.0	22	3.9	ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	its	•	
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%		
877-09-8	Tetrachloro-m-xylene	82%		26-1	,		
2051-24-3	Decachlorobiphenyl	101%		32-1			
2051-24-3	Decachlorobiphenyl	96%			53%		
* *		15490008-75000014000000	· ·		· ·		

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF58A Lab Sample ID: N54554-13 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 75.0

RFP# 4229 Project:

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Percent	75		%	1	12/04/03	TC	EPA 160.3 M



File ID DF Analyzed By Prep Date Prep Batch Analytical Bar Run #1 EF48065.D 1 12/12/03 OYA 12/03/03 OP15534 GEF2413 Run #2	Client Sam Lab Sampl Matrix: Method: Project:	le ID:	CDFF53A1 N54554-14 SO - Soil SW846 8082 RFP# 4229	SW846 3550B		Date Sample Date Receive Percent Soli	ed: 12/03/03	
				_	· ·	•	•	Analytical Batch GEF2413
Initial Weight Final Volume Run #1 30.1 g 10.0 ml Run #2			_		j.			

						·	
CAS No.	Compound	Result	RL	MDL	Units	Q	
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	•	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg		
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	,	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg		
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg		
11097-69-1	Aroclor 1254	272	21	2.0	ug/kg		
11096-82-5	Aroclor 1260	97.7	21	3.7	ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	uits	•	
877-09-8	Tetrachloro-m-xylene	74%		26-1	42%	. •	
877-09-8	Tetrachloro-m-xylene	81%			42%	٠.	
2051-24-3	Decachlorobiphenyl	93%		32-1		•	
2051-24-3	Decachlorobiphenyl	87%			53%	*	



E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method bank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF53A1 Lab Sample ID: N54554-14 Matrix: SO - Soil

Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 79.5

Project: RFP# 4229

General Chemistry

Analyte		Result RL	Units	DF	Analyzed	By	Method
Solids, Percent	5 .	79.5	%	1	12/04/03	TC	EPA 160.3 M

02/06/0

877-09-8

877-09-8

2051-24-3

2051-24-3

Client Sam Lab Sampl Matrix: Method: Project:		4-15 oil 8082 SW8	46 3550 B		Date Sample Date Receive Percent Solid	d: 12/03/03	
Run #1 Run #2	File ID EF48066.D	DF 1	Analyzed 12/12/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413
Run #1 Run #2	Initial Weight 30.4 g	Final Volu 10.0 ml	ıme				
PCB List	**						
CAS No.	Compound		Result	RL	MDL Units	; Q	•
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260		ND ND ND ND ND 324 124	21 21 21 21 21 21 21 21	3.0 ug/kg 6.5 ug/kg 4.8 ug/kg 3.7 ug/kg 3.2 ug/kg 2.1 ug/kg 3.8 ug/kg		
CAS No.	Surrogate Reco	overies	Run#1	Run# 2	Limits		

87%

83%

98%

93%



ND = Not detectedMDL - Method Detection Limit RL = Reporting Limit

Tetrachloro-m-xylene

Decachlorobiphenyl

Decachlorobiphenyl

Tetrachloro-m-xylene

E = Indicates value exceeds calibration range

J = Indicates an estimated value

26-142%

26-142%

32-153%

32-153%

B = Indicates analyte found in associated method and N = Indicates presumptive evidence of a compound

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Client Sample ID: CDFF50A Lab Sample ID: N54554-15 N54554-15 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Project: RFP# 4229 Percent Solids: 77.4

Analyte	F	Result	RL .	Units	DF	Analyzed	Ву	Method
	698	saran adama		•	•			•
Solids, Percent	7	7.4		· %	1 .	12/04/03	TC	EPA 160.3 M



Client Sample ID:	CDFF51A		* +4	
Lab Sample ID:	N54554-16			7
Motrive	CO Co:1			

Method:

SW846 8082 SW846 3550B

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 77.6

Project:

RFP# 4229

File ID DF

EF48067.D

2051-24-3 Decachlorobiphenyl

Analyzed By 12/12/03

Prep Date OYA 12/03/03

Prep Batch OP15534

Analytical Batch GEF2413

Run#1 Run #2

> **Initial Weight Final Volume** 30.6 g $10.0 \, ml$

Run #1 Run #2

PCB List

CAS No.	Compound		Result	RL	MDL	Units	
			, and an		1411713	Cilics	
12674-11-2	Aroclor 1016	•	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221		ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232		ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242		ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248		ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254		797	21	2.1	ug/kg	
11096-82-5	Aroclor 1260		240	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Lim	its	٠.
877-09-8	Tetrachloro-m-xylene		77%	•	26-1	42%	
877-09-8	Tetrachloro-m-xylene		85%		26-1	42%	
2051-24-3	Decachlorobiphenyl		98%		32-1	53%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

32-153%

B = Indicates analyte found in associated method thank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF51A Lab Sample ID: N54554-16

Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 77.6

Project: RFP# 4229

General Chemistry

Analyte	Result RL	Units	DF	Analyzed	Ву	Method
Solids, Percent	77.6	%	1	12/04/03	тс	EPA 160.3 M

02/06/04

Client Sam Lab Samp Matrix: Method: Project:	le ID: N54554-17 SO - Soil	346 3550B		Date Sample Date Receive Percent Solid	d: 12/03/03	
Run #1 Run #2	File ID DF EF48070.D 1	Analyzed 12/13/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413
Run #1 Run #2	Initial Weight Final Vol 30.0 g 10.0 ml	ume				
PCB List						
CAS No.	Compound	Result	RL	MDL Units	; Q	
12674-11-2	Aroclor 1016	ND	22	3.2 ug/kg		
11104-28-2	Aroclor 1221	ND	22	6.8 ug/kg		
11141-16-5.	Aroclor 1232	ND	22 .	5.1 ug/kg		
	Aroclor 1242	ND	22	3.9 ug/kg		
	Aroclor 1248	ND	22	3.4 ug/kg		*
11097-69-1	Aroclor 1254	346	22	2.2 ug/kg		. 1 . 1
11096-82-5	Aroclor 1260	115	22	4.0 ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	84 <i>%</i>		26-142%		. '
877-09-8	Tetrachloro-m-xylene	90%		26-142% 26-142%		
2051-24-3	Decochlorohinhonyl	1040		20-142/0		

104%

102%



ND = Not detected

2051-24-3

2051-24-3

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

Decachlorobiphenyl

J = Indicates an estimated value

32-153%

32-153%

B = Indicates analyte found in associate method blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF62A Lab Sample ID: N54554-17 N54554-17 Matrix: SO - Soil

Project: RFP# 4229 Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 74.5

Analyte		Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Perc	ent	74.5		%	1	12/04/03	тс	EPA 160.3 M

11097-69-1 Aroclor 1254

11096-82-5 Aroclor 1260

					•	*		•	B
Client Sam Lab Sampl Matrix: Method: Project:		4-18 oil 5 8082 SW8	46 3550B		Date R	ampled: eceived: Solids:	12/02/03 12/03/03 79.6		
Run #1 Run #2	File ID EF48071.D	DF 1	Analyzed 12/13/03	By OYA	Prep Da 12/03/03		rep Batch P15534	Analytica GEF2413	Batch
Run #1 Run #2	Initial Weight 30.5 g	Final Volu 10.0 ml	ıme						
PCB List	Compound		Result	RL	MDL	Units	Q		
	Aroclor 1221 Aroclor 1232		ND ND ND	21 21 21	3.0 6.3 4.7	ug/kg ug/kg ug/kg			
53469-21-9 12672-29-6	· · · · · · · · · · · · · · · · · · ·	•	ND ND	21 21	3.6 3.1	ug/kg ug/kg	:		

21

21

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	97%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

323

136

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

ug/kg

ug/kg

2.0

3.6

B = Indicates analyte found in associated in thod blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF61A Lab Sample ID: Matrix: N54554-18

SO - Soil

Date Sampled: 12/02/03
Date Received: 12/03/03 Percent Solids: 79.6

Project: RFP# 4229

Analyte	Result RL	Units	DF Analyzed	Ву	Method
Solids, Percent	79.6	%	1 12/04/03	TC	EPA 160.3 M

Client Sam Lab Sample Matrix: Method: Project:	SO - S	54-19 Soil 6 8082 SW	/846 3550B		Date Sample Date Receive Percent Soli	ed: 12/03/03	
Run #1 Run #2	File ID EF48072.D	DF 1	Analyzed 12/13/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2413
Run #1 Run #2	Initial Weight 30.8 g	Final Vo	lume				

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	322	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	95,0	19	3.4	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	79%	•	26-1	42%	
877-09-8	Tetrachloro-m-xylene	85%		26-1		
2051-24-3	Decachlorobiphenyl	91%	47.4	32-1	•	
2051-24-3	Decachlorobiphenyl	86%	· -,.		53%	• •
	the state of the s		$\mathcal{F}_{k,k}$	•		

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compand

Page 1 of 1

Client Sample ID: CDFF67C

Lab Sample ID: N54554-19 Matrix:

SO - Soil

Date Sampled: 12/02/03

Project: RFP# 4229 Date Received: 12/03/03 Percent Solids: 85.1

Analyte	Result RL	Units DF	Analyzed	Ву	Method
Solids, Percent	85.1	% 1	12/04/03	TC	EPA 160.3 M

Client San Lab Samp Matrix: Method: Project:	le ID: N54554-20 SO - Soil	SW846 3550B	Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 73.7	
Run #1 Run #2	File ID DF EF47935.D 1	Analyzed By 12/08/03 OYA	Prep Date Prep Batch 12/03/03 OP15535	Analytical Batch GEF2409
Run #1 Run #2	Initial Weight Final 30.3 g 10.0 r	Volume nl		
PCB List				
CAS No.	Compound	Result RL	MDL Units Q	

877-09-8	Tetrachloro-m-xylene	89%		26_142%	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
11096-82-5	Aroclor 1260	124	22	4.0 ug/kg	ا د
11097-69-1	Aroclor 1254	283	22	2.2 ug/kg	(3)
	Aroclor 1248	· ND	22	3.4 ug/kg	
	Aroclor 1242	ND	22	3.9 ug/kg	
	Aroclor 1232	ND	22	5.1 ug/kg	
	Aroclor 1221	ND	22	6.8 ug/kg	. •
	Alocioi 1016	ND	22	3.2 ug/kg	

877-09-8	Tetrachloro-m-xylene	89%	26-142%
877-09-8	Tetrachloro-m-xylene	92%	26-142%
2051-24-3	Decachlorobiphenyl	89%	32-153%
2051-24-3	Decachlorobiphenyl	92%	32-153%
			•

MDL - Method Detection Limit ND = Not detected RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF57A

Lab Sample ID: N54554-20 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 73.7

Project: RFP# 4229

General Chemistry

Analyte		Result	RL Units	DF Analyzed	By Method
Solids, Percent	``*	73.7	%	1 12/04/03	TC EPA 160.3 M

03/01/04

Client Sample ID: CDFF67D Lab Sample ID: N54554-2 Matrix: SO - Soil Method: SW846 80 Project: RFP# 422	1 82 SW846 3550B		Date Sample Date Receive Percent Solid	ed: 12/03/03	
File ID I Run #1 EF47966.D 1 Run #2	OF Analyzed 12/09/03	By OYA	Prep Date 12/03/03	Prep Batch OP15534	Analytical Batch GEF2410
Initial Weight I	inal Volume 0.0 ml				

PCB List

•	·				
CAS No.	Compound	Result	RL	MDL Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0 ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3 ug/kg	* "
11141-16-5	Aroclor 1232	· ND	21	4.7 ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6 ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1 ug/kg	
11097-69-1	Aroclor 1254	214	21	2.0 ug/kg	
11096-82-5	Aroclor 1260	57.0	21	3.7 ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
877-09-8	Tetrachloro-m-xylene	88%	•	26-142%	. '
877-09-8	Tetrachloro-m-xylene	91%		26-142%	
2051-24-3	Decachlorobiphenyl -	99%	Š	32-153%	:
2051-24-3	Decachlorobiphenyl	96%		32-153 %	
		145565555555555555555555555555555555555	(4)	//	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated metablank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF67D Lab Sample ID: N54554-21 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 79.8

Project: RFP# 4229

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
	* ************************************		•				.4
Solids, Percent	79.8	665 685	%	1	12/04/03	TC	EPA 160.3 M

OYA "

Client Sample ID: CDFF67B

Lab Sample ID:

N54554-22

Date Sampled: 12/02/03

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Received: 12/03/03

Project:

Percent Solids: 87.4

RFP# 4229

Analyzed By. 12/08/03

Prep Date 12/03/03 **Prep Batch** OP15535

Analytical Batch GEF2409

Run #1 Run #2

Initial Weight

EF47936.D

File ID

Final Volume

30.1 g

10.0 ml

DF

1

Run #1 Run #2

PCB List

	•					
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	•••
11097-69-1	Aroclor 1254	336	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	109	19	3.4	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	its	•
877-09-8	Tetrachloro-m-xylene	86%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	8 8%			42%	
2051-24-3	Decachlorobiphenyl	79%			53%	• .
2051-24-3	Decachlorobiphenyl	80%		,	53%	•. ²
		**************************************	· ·			

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF67B Lab Sample ID: N54554-22 Matrix: SO - Soil

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 87.4

Project: RFP# 4229

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Solids, Percent 87.4 % 1 12/05/03 TC ASTM 4643-00

02/04/04

12/02/03

Report of Analysis

Client Sample ID: CDFF41A
Lab Sample ID: N54554-23 Date Sampled:
Matrix: SO - Soil Date Received:

 Matrix:
 SO - Soil
 Date Received:
 12/03/03

 Method:
 SW846 8082 SW846 3550B
 Percent Solids:
 78.4

Project: RFP# 4229

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 EF47950.D 1 12/09/03 OYA 12/03/03 OP15535 GEF2409 Run #2

Initial Weight Final Volume
Run #1 30.1 g 10.0 ml
Run #2

Tetrachloro-m-xylene

Decachlorobiphenyl

Decachlorobiphenyl

PCB List

877-09-8

2051-24-3

2051-24-3

	the state of the s			1 ×		
CAS No.	Compound	Result	RL,	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	. :
53469-21-9	Aroclor 1242	· ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	uits	;
877-09-8	Tetrachloro-m-xylene	78%		26-1	142%	

84%

80%

02/04/04

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

26-142%

32-153%

32-153%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF41A Lab Sample ID: N54554-23

N54554-23 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 78.4

RFP# 4229 Project:

Analyte	 Result	RL	Units DF	Analyzed	Ву	Method
Solids, Percent	78.4		% 1	12/04/03	TC	EPA 160.3 M

Analytical Batch

GEF2409

Client Sam Lab Sample Matrix: Method: Project:	e ID: N54554-24 SO - Soil	46 3550B		Date Sampled Date Received Percent Solids	12/03/03
Run #1 Run #2	File ID DF EF47937.D 1	Analyzed 12/08/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535
Run #1 Run #2	Initial Weight Final Volu 30.1 g 10.0 ml	ume			
PCB List					•
CAS No.	Compound	Result	RL	MDL Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1 ug/kg	*
11104-28-2	Aroclor 1221	ND	22	6.6 ug/kg	.*
11141-16-5		ND	22	4.9 ug/kg	•
53469-21-9	Aroclor 1242	ND	22	3.7 ug/kg	
12672-29-6		ND	22	3.3 ug/kg	and the same of th
11097-69-1	Aroclor 1254	198	22	2.1 ug/kg	
11096-82-5	Aroclor 1260	91.3	22	3.8 ug/kg	<u> </u>
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
877-09-8	Tetrachloro-m-xylene	91%		26-142%	
877-09-8	Tetrachloro-m-xylene	95%		26-142%	
2051-24-3	Decachlorobiphenyl	87%		32-153%	
2051-24-3	Decachlorobiphenyl	89%		32-153%	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated methodolank
N = Indicates presumptive evidence of a compound

Client Sample ID: CDFF64A

Lab Sample ID: N54554-24 Matrix: SO - Soil

Date Sampled: 12/02/03
Soil Date Received: 12/03/03
Percent Solids: 77.0

Project: RFP# 4229

Analyte		1	Result	, . RL .	Unit	s	DF	Analyzed	By	Method
Solids, Percent	٠.	•	77		%	•	1	12/04/03	TC	EPA 160.3 M



Client San Lab Samp Matrix: Method: Project:	le ID: N54554-25 SO - Soil	SW846 3550B		Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 77.3	
Run #1 Run #2	File ID DF EF47938.D 1	Analyzed 12/08/03	By OYA	Prep Date Prep Batch 12/03/03 OP15535	Analytical Batch GEF2409
Run #1 Run #2	Initial Weight Final 10.0 m	Volume nl			
PCB List					
CAS No.	Compound	Result	RL	MDL Units Q	
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND ND 251 134	21 21 21 21 21 21 21 21	3.1 ug/kg 6.5 ug/kg 4.9 ug/kg 3.7 ug/kg 3.2 ug/kg 2.1 ug/kg 3.8 ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	

	•		,	 -31-111-00
. •			g Aleman Land	**
877-09-8	Tetrachloro-m-xylen		78%	26-142%
877-09-8	Tetrachloro-m-xylen	e ˙	82%	26-142%
2051-24-3	Decachlorobiphenyl		80%	32-153%
2051-24-3	Decachlorobiphenyl		. 81%	32-153%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a competite

Client Sample ID: CDFF56A Lab Sample ID: N54554-25 N54554-25 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 77.3

Project: RFP# 4229

Analyte	Result	RL	Units	DF	Analyzed	By Method
Solids, Percent	77.3		%	1	12/04/03	TC EPA 160.3 M

Client Sam Lab Sampl Matrix: Method: Project:	le ID: N54554-26 SO - Soil	46 3550B		Date Sampled: Date Received Percent Solids	12/03/03	
Run #1 Run #2	File ID DF AB43577.D 1	Analyzed 12/06/03	By OYA	•	Prep Batch OP15539	Analytical Batch GAB2138
Run #1 Run #2	Initial Weight Final Vol 30.5 g 10.0 ml			*	,	
PCB List			•			
CAS No.	Compound	Result	RL	MDL Units	Q	
12674-11-2	Aroclor 1016	ND	21	3.1 ug/kg		
11104-28-2	Aroclor 1221	ND	21	6.5 ug/kg	•	
11141-16-5	Aroclor 1232	ND	21	4.9 ug/kg		•
. 53469-21-9	Aroclor 1242	ND	21	3.7 ug/kg	2	
12672-29-6	Aroclor 1248	ND	21 .	3.2 ug/kg		
11097-69-1	Aroclor 1254 a	75.3	21	2.1 ug/kg	(J)	•
11096-82-5	Aroclor 1260 a	31.3	21	3.8 ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8	Tetrachloro-m-xylene	44%		26-142%		
877-09- 8	Tetrachloro-m-xylene	49%		26-142%		
2051-24-3	Decachlorobiphenyl	61%		32-153%		
2051-24-3	Decachlorobiphenyl	49%		32-153%	- 1.	
(a) Reported	l from 1st signal.					

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated met lank

N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF48A Lab Sample ID:

N54554-26 Matrix: SO - Soil.

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 76.4

Project: RFP# 4229

Analyte	Result	RL Un	nits DF	Analyzed	Ву	Method
Solids, Percent	76.4	%	1	12/05/03	TC	ASTM 4643-00

Client San Lab Samp Matrix: Method: Project:	- \	CDFF N5455 SO - S SW846 RFP#	4-27 oil 5 8082	SW846 3550B		Date Sampled: Date Received: Percent Solids:	12/03/03	
Run #1 Run #2	File ID EF4793		DF 1	Analyzed 12/08/03	By OYA		Prep Batch OP15535	Analytical Batch GEF2409
Run #1 Run #2	Initial 30.2 g	Weight	Fina	l Volume mi				

PCB List

Compound		Result	RL	MDL	Units	Q
Aroclor 1016		ND	22	3.1	ug/kg	
Aroclor 1221	• .	ND	22		,	,
, Aroclor 1232	:	· ND	22	5.0		
Aroclor 1242		ND	22			• •
Aroclor 1248		ND	22	3.3		
Aroclor 1254		267	22	2.1		
Aroclor 1260		147	22	3.8	ug/kg	
Surrogate Recov	veries	Run# 1	Run# 2	Limi	its	
Tetrachloro-m-xy	lene	86%		26-1	12%	. •
		89%				
		82%				
Decachlorobipher	nyl	82%				
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recov Tetrachloro-m-xy Tetrachloro-m-xy Decachlorobipher	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 267 Aroclor 1260 I47 Surrogate Recoveries Run# 1 Tetrachloro-m-xylene 86% Tetrachloro-m-xylene 89% Decachlorobiphenyl 82%	Aroclor 1016 ND 22 Aroclor 1221 ND 22 Aroclor 1232 ND 22 Aroclor 1242 ND 22 Aroclor 1248 ND 22 Aroclor 1254 267 22 Aroclor 1260 147 22 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene 86% Tetrachloro-m-xylene 89% Decachlorobiphenyl 82%	Aroclor 1016 ND 22 3.1 Aroclor 1221 ND 22 6.6 Aroclor 1232 ND 22 5.0 Aroclor 1242 ND 22 3.7 Aroclor 1248 ND 22 3.3 Aroclor 1254 267 22 2.1 Aroclor 1260 147 22 3.8 Surrogate Recoveries Run# 1 Run# 2 Limi Tetrachloro-m-xylene 86% 26-14 Tetrachloro-m-xylene 89% 26-14 Decachlorobiphenyl 82% 32-15	Aroclor 1016 ND 22 3.1 ug/kg Aroclor 1221 ND 22 6.6 ug/kg Aroclor 1232 ND 22 5.0 ug/kg Aroclor 1242 ND 22 3.7 ug/kg Aroclor 1248 ND 22 3.3 ug/kg Aroclor 1254 267 22 2.1 ug/kg Aroclor 1260 I47 22 3.8 ug/kg Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 86% 26-142% Tetrachloro-m-xylene 89% 26-142% Decachlorobiphenyl 82% 32-153%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF54A Lab Sample ID: N54554-27 Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 76.2

Project: RFP# 4229

General Chemistry

Analyte	•	Result	RL	Units	DF	Analyzed	Ву	Method	
Solids, Percent		76.2		%	1	12/04/03	тс	EPA 160.3 M	

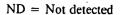
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Analytical Batch

GEF2409

Report of Analysis

Client Sample ID: CDFF55A Lab Sample ID: N54554-28 Date Sampled: 1 Matrix: SO - Soil Date Received: 1 Method: SW846 8082 SW846 3550B Percent Solids: 7 Project: RFP# 4229								
Run #1	File ID EF47943.D		Analyzed 12/09/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535		
Run #2	LI 47545.D	e i ^t ti og skrivet Og til defaktion	12/09/03	OIA	12/03/03	OP13333		
Run #1 Run #2	Initial Weight 30.1 g	Final Volu 10.0 ml	me					
PCB List	8.			-				
CAS No.	Compound		Result	RL	MDL Units	Q		
12674-11-2			ND	22	3.2 ug/kg			
11104-28-2 11141-16-5	Aroclor 1221 Aroclor 1232		ND ND	22 22	6.7 ug/kg 5.0 ug/kg	•		
53469-21-9	Aroclor 1242		ND	22	3.8 ug/kg	•		
12672-29-6	•		ND	22	3.3 ug/kg			
11097-69-1 11096-82-5	·		180 94.2	22 22	2.2 ug/kg 3.9 ug/kg			
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Limits			
877-09-8	Tetrachloro-m-		80%		26-142%			
877-09-8 2051-24-3	Tetrachloro-m- Decachlorobiph		88% 80%		26-142% 32-153%			
2051 24 3	D 11 11	•	20 70	*	34-133/0			



2051-24-3

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Decachlorobiphenyl

J = Indicates an estimated value

32-153%

B = Indicates analyte found in associated methodologicals N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF55A

Lab Sample ID: Matrix:

N54554-28 SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 75.2

General Chemistry

Analyte` Result · RL Units DF' Analyzed By. Method Solids, Percent 12/04/03 TC EPA 160.3 M

Client Sam Lab Sampl Matrix: Method: Project:	-	-29 il 8082 SW846	i 3550B		Date Receiv	ed: 12/02/03 red: 12/03/03 ids: 80.8		
Run #1 Run #2	File ID EF47944.D		Analyzed 2/09/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535	Analytical GEF2409	Batch
Run #1 Run #2	Initial Weight 30.2 g	Final Volun	ne					
PCB List							r .	. :
CAS No.	Compound		Result	RL	MDL Uni	ts Q		•
	Aroclor 1242		ND ND ND ND ND	20 20 20 20 20 20	2.9 ug/l 6.2 ug/l 4.7 ug/l 3.5 ug/l 3.1 ug/l	kg kg kg		
	Aroclor 1254		124 41.7	20 20	2.0 ug/l 3.6 ug/l	cg		•••

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	100%		26-142%
2051-24-3	Decachlorobiphenyl	86%		32-153%
2051-24-3	Decachlorobiphenyl	88%		32-153%

J = Indicates an estimated value

B = Indicates analyte found in associated method in the N = Indicates presumptive evidence of a compound

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

Client Sample ID: CDFF66D

Lab Sample ID: N54554-29 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 80.8

RFP# 4229 Project:

Analyte		Result	RL	Units 1	DF Analyzed	Ву	Method
Solids, Percent	•	80.8		%	1 12/05/03	TC	ASTM 4643-00

Client Sample ID: CDFF66C Lab Sample ID: N54554-30 Matrix: SO - Soil Method: SW846 808 Project: RFP# 4229	2 SW846 3550B	Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 83.2	
File ID D Run #1 EF47945.D 1 Run #2	F Analyzed By 12/09/03 OYA	Prep Date Prep Batch Analytical Batch 12/03/03 OP15535 GEF2409	h

Initial Weight Final Volume 30.0 g 10.0 ml Run #1

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	•
11097-69-1	Aroclor 1254	454	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	. 165	20	3.5	ug/kg	1 1
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	* ·
877-09-8	Tetrachloro-m-xylene	81%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	88%	000 000 000 000 000		42%	
2051-24-3	Decachlorobiphenyl	85%			53 %	• .
2051-24-3	Decachlorobiphenyl	84%			53%	
						•

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method Pank
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF66C

N54554-30 Lab Sample ID:

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 83.2

General Chemistry

Analyte Result Units DF · Analyzed Method

Solids, Percent 12/05/03 83.2 1 TC ASTM 4643-00

Client San Lab Samp Matrix: Method: Project:	SO - S	54-31 Soil 6 8082	SW846 3550B		Date Sample Date Receive Percent Solid	ed: 12/03/03		
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	===
Run #1	EF47946.D	- 1	12/09/03	OYA	12/03/03	OP15535	GEF2409	•
Run #2	EF47983.D	4	12/10/03	OYA	12/03/03	OP15535	GEF2410	
	Initial Weight	Fina	al Volume	,	*			
Run #1	30.2 g	10.0) ml				`/. `	

PCR	T	ict	•

Run #2

CAS No.	Compound	Result	RL	MDL Unit	ts Q
12674-11-2	Aroclor 1016	ND	20	2.9 ug/k	g
11104-28-2	Aroclor 1221	ND	20	6.1 ug/k	
11141-16-5	Aroclor 1232	ND	20	4.6 ug/k	•
53469-21-9	Aroclor 1242	ND	20	3.5 ug/k	_
12672-29-6	Aroclor 1248	ND	20	3.1 ug/k	•
11097-69-1	Aroclor 1254	1860 a	81	7.9 ug/k	
11096-82-5	Aroclor 1260	625	20	3.6 ug/k	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
877-09-8	Tetrachloro-m-xylene	88%	86%	26-142%	
877-09 -8	Tetrachloro-m-xylene	93%	86%	26-142%	٠.
2051-24-3	Decachlorobiphenyl	80%	109%	32-153%	, , , t
2051-24-3	Decachlorobiphenyl	82%	116%	32-153%	

10.0 ml

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method bink
N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF66B

Lab Sample ID: N54554-31

Matrix: SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03 Percent Solids: 81.9

Project: RFP# 4229

Analyte	Result	RL Units	DF Analyzed	By Method
Solids, Percent	81.9	%	1 12/05/03	TC ASTM 4643-00

	Initial Weight	Final Volume	· · · · · · · · · · · · · · · · · · ·		,	
Run #1 Run #2	File ID EF47947.D	· ·	alyzed By 709/03 OYA	Prep Date 12/03/03	e Prep Batch OP15535	Analytical Batch GEF2409
Lab Samp Matrix: Method: Project:	•	-32 il 8082 SW846 3	550B	Date Sar Date Re Percent	ceived: 12/03/03	
Client San	nple ID: CDFF4	041		,		

Initial Weight Final Volume Run #1 30.4 g 10.0 ml

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	68%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	91%	87 V 10 10 10 10 10 10 10 10 10 10 10 10 10	26-1	42%	
2051-24-3	Decachlorobiphenyl	82%	8 4,	32-1	53%	,
2051-24-3	Decachlorobiphenyl	82%			53%	•
	•					

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF40A1 Lab Sample ID: N54554-32

Matrix: SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project: RFP# 4229

Percent Solids: 79.1

Analyte	Result	RL U	nits DF	Analyzed	Ву	Method
Colida Doscout	70.1	OT.	•	12/04/02		
Solids, Percent	/9.1	· %	- 1 · 1	12/04/03	TC .	EPA 160.3 M

By.

OYA

Client Sample ID: CDFF40A

Lab Sample ID: N54554-33

Matrix:

SO - Soil

SW846 8082 SW846 3550B

DF.

Date Received: 12/03/03

Date Sampled: 12/02/03

Percent Solids: 77.3

Method: Project:

RFP# 4229

File ID

EF47948.D

Prep Date **Prep Batch Analytical Batch** 12/03/03 OP15535 **GEF2409**

Run #1 Run #2

Final Volume

Analyzed

12/09/03

Initial Weight Run#1 30.1 g

Run #2

10.0 ml

PCB List

• •						
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	2 i	3.1	ug/kg	٠.
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	· Aroclor 1248	ND	21	3.3	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	its	,
877-09-8	Tetrachloro-m-xylene	78%		26-1	42%	٠.
877-09-8	Tetrachloro-m-xylene	88%		26-1	42%	. •
2051-24-3	Decachlorobiphenyl	82%			53%	
2051-24-3	Decachlorobiphenyl	82%		32-1	53%	

MDL - Method Detection Limit ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF40A

Lab Sample ID: N54554-33 Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 77.3

RFP# 4229 Project:

Analyte			Result	RL	Units	DF	Analyzed	Ву	Method
	÷		· • • • • •		,				
Solids, Percent		ν.	77.3		%	1	12/04/03	TC	EPA 160.3 M

CDFF42A				
N54554-34			Date Sampled:	12/02/03
SO - Soil			Date Received:	
SW846 8082	SW846 3550B.		Percent Solids:	76.9
RFP# 4229				
	* 27			
	N54554-34 SO - Soil SW846 8082	N54554-34 SO - Soil SW846 8082 SW846 3550B	N54554-34 SO - Soil SW846 8082 SW846 3550B	N54554-34 Date Sampled: SO - Soil Date Received: SW846 8082 SW846 3550B Percent Solids:

Run #1	File ID EF47949.D	D# 1	12/09/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535	Analytical Batch GEF2409
Run #2							

	Initial Weight	Final Volume		*	1,51.4	•
Run #1	30.3 g	10.0 ml				
Run #2						

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	٠.
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	٠.
11097-69-1	Aroclor 1254	457	21	2.1	ug/kg	(F)
11096-82-5	Aroclor 1260	138	21	3.8	ug/kg	9.
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi		ж. ³ ;
877-09-8	Tetrachloro-m-xylene	77%		26-14	12%	
877-09-8	Tetrachloro-m-xylene	84%		26-14		
2051-24-3	Decachlorobiphenyl	77%	24 5	32-15		
2051-24-3	Decachlorobiphenyl	74%		32-15		•

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF42A Lab Sample ID: N54554-34

Matrix: SO - Soil

Date Sampled: 12/02/03
Date Received: 12/03/03

Percent Solids: 76.9

Project: RFP# 4229

Analyte	Result RL	Units	DF	Analyzed	Ву	Method
Solids, Percent	76.9	%	1	12/04/03	TC	EPA 160.3 M

Client San Lab Samp Matrix: Method: Project:	-	CDFF3 N54554 SO - So SW846 RFP# 4	1-35 oil 8082 S	W846 3550B		Date Sampl Date Receiv Percent Sol	ed: 12/03/03		-
Run #1 Run #2	File ID EF479		DF 1	Analyzed 12/10/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535	Analytical Batch GEF2410	
Run #1 Run #2	Initial 30.2 g	Weight	Final V 10.0 m	Volum e I					
PCB List					÷				
CAS No.	Comp	ound		Recult	pı	MDI * · Uni	te O		

CAS No.	Compound	*	,		Result	RL	MDL	Units
12674-11-2	Aroclor 1016			•	ND	21	 3.0	ug/kg

CAS No.	Surrogate Reco	overies		Run# 1	Run# 2	Lin	nits	
11096-82-5	Aroclor 1260			96.3	21	3.7	ug/kg	
	Aroclor 1254	÷.	* -	264	21	2.0	ug/kg	(3)
	Aroclor 1248			ND	21	3.1	ug/kg	_
	Aroclor 1242			ND	21	3.6	ug/kg	
•	Aroclor 1232		•	ND	21	4.7	ug/kg	
*	Aroclor 1221			ND	21	6.3	ug/kg	
	Alocidi 1010			שמו	21	3.0	ug/kg	*

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8	Tetrachloro-m-xylene Tetrachloro-m-xylene	86 % 90 %		26-142%
2051-24-3	Decachlorobiphenyl	98%		26-142 <i>%</i> 32-153 <i>%</i>
2051-24-3	Decachlorobiphenyl	97%	,	32-153%

RL = Reporting Limit E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF33A Lab Sample ID: N54554-35 Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Project: RFP# 4229 Percent Solids: 79.8

Analyte	 Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	 79.8	•	%	1	12/04/03	TC	EPA 160.3 M

By

OYA

Client Sample ID: CDFF34A Lab Sample ID: N54554-36

Matrix: Method: SO - Soil

SW846 8082 SW846 3550B

Date Sampled: Date Received: 12/03/03

Prep Date

12/03/03

12/02/03

Analyzed

12/10/03

Project:

RFP# 4229

Percent Solids: 77.1

Prep Batch Analytical Batch OP15535 **GEF2410**

Run #1 Run #2

Initial Weight

File ID

EF47978.D

Final Volume

Run #1 30.3 g 10.0 ml

DF

Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	·. ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	,
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	-
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	485	21-	2.1	ug/kg	
11096-82-5	Aroclor 1260	180	21 ,	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	76%	,	26-1	42%	i
877-09-8	Tetrachloro-m-xylene	83 %	85 16	26-1	42%	
2051-24-3	Decachlorobiphenyl	94%		32-1	53%	: 1
2051-24-3	Decachlorobiphenyl	96%		32-1	53%	

E = Indicates value exceeds calibration range

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated near blank

Page 1 of 1

Client Sample ID: CDFF34A

Lab Sample ID: N54554-36

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 77.1

Project: RFP# 4229

Analyte		Result	RL	Units	DF	Analyzed	Ву	Method
	•	4						
Solids Percent	1.5	77.1	00000 0000	0%	1	12/04/03	. тс	EDA 160 2 M

Client Sample ID:	CDFF37A	•		· .		;	
Lab Sample ID:	N54554-37				Date Sar	npled:	12/02/03
Matrix:	SO - Soil			:	Date Rec	ceived:	12/03/03
Method:	SW846 8082	SW846 3550B	, .		Percent S	Solids:	75.9

Project: RFP# 4229

Percent Solids: 75.9

File ID DF Analyzed . By **Prep Date** Prep Batch **Analytical Batch** Run #1 EF47979.D 1 12/10/03 OYA 12/03/03 OP15535 GEF2410 Run #2

Initial Weight Final Volume Run #1 30.4 g 10.0 ml Run #2

PCB List.

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	,
11104-28-2	Aroclor 1221	. ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	-
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3:3	ug/kg	
11097-69-1	Aroclor 1254	664	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	217	22	3.8	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	78%		· 26-1	42%	2
877-09-8	Tetrachloro-m-xylene	81%			42%	•
2051-24-3	Decachlorobiphenyl	91%			53%	·
2051-24-3	Decachlorobiphenyl	96%			53%	

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method ank

Page 1 of 1

Client Sample ID: CDFF37A

Lab Sample ID: N54554-37

Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03

Project:

RFP# 4229

Percent Solids: 75.9

Analyte	Result RL	Units DF	Analyzed By	Method
Solids, Percent	75.9	% 1	12/04/03 тс	EPA 160.3 M

Client Sample ID: CDFF36A

Lab Sample Matrix: Method: Project:	e ID: N54554-38 SO - Soil SW846 8082 SW RFP# 4229	7846 3550B		Date Samp Date Recei Percent So	ived: 12/03/03	
Run #1 Run #2	File ID DF, EF47940.D 1	Analyzed 12/08/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535	Analytical Batch GEF2409
Run #1 Run #2	Initial Weight Final Vo 30.2 g 10.0 ml	lume				
PCB List			•		Service of the servic	
CAS No.	Compound	Result	RL	MDL Un	nits Q	
12674-11-2	Aroclor 1016	ND	23	3.4 ug/	/kg	
11104-28-2	Aroclor 1221	ND	23		/kg	
11141-16-5	Aroclor 1232	ND	23 ,		/kg	1
53469-21-9	Aroclor 1242	ND	23	4.0 ug	/kg	
12672-29-6	Aroclor 1248	ND	23	3.6 ug/	/kg	
11097-69-1	Aroclor 1254 a	468	23		/kg (J)	
11096-82-5	Aroclor 1260	142	23	4.2 ug/	/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Limits		
877-09-8	Tetrachloro-m-xylene	. 87%	8000 8000 8000	26-142%		
877-Ò9- 8	Tetrachloro-m-xylene	90%		26-142%		
2051-24-3	Decachlorobiphenyl	87%	- - - 	32-153%		•
2051-24-3	Decachlorobiphenyl	87%		32-153%		

⁽a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

J = Indicates an estimated value 84
B = Indicates analyte found in associated method blank

Client Sample ID: CDFF36A Lab Sample ID: N54554-38

Matrix: SO - Soil

Date Sampled: 12/02/03
Date Received: 12/03/03,

Percent Solids: 70.6

Project: RFP# 4229

General Chemistry

Analyte	Result RL	Units DF	Analyzed By	Method
Solids, Percent	70.6	% 1	12/04/03 тс	EPA 160.3 M

100/01/07

Client Sample ID: CDFF35A Lab Sample ID:

Matrix:

N54554-39 SO - Soil

SW846 8082 SW846 3550B

Date Sampled:

12/02/03 Date Received: 12/03/03

Percent Solids: 74.9

Method: Project:

RFP# 4229

File ID

DF

Analyzed By 12/10/03

Prep Date OYA 12/03/03

Prep Batch OP15535

Analytical Batch GEF2410

Run #1 Run #2

Initial Weight

EF47980.D

Final Volume

Run#1 30.3 g 10.0 ml

Run #2

PCB List

	'			-		
CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	[¥'+ .
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5:0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	•
11097-69-1	Aroclor 1254	652	22	2.2	ug/kg	
11096-82-5	Aroclor 1260	209	22	3.9	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	83 %		26-1	42%	
877-09-8	Tetrachloro-m-xylene	82%		26-1		
2051-24-3	Decachlorobiphenyl	104%		32-1:		
2051-24-3	Decachlorobiphenyl	101%		32-1		
•		1 11 11 1 10 10 10 10 10 10 10 10 10 10		,	and the second second	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method plank

Page 1 of 1

Client Sample ID: CDFF35A Lab Sample ID: N54554-39 Matrix:

SO - Soil

Date Sampled: 12/02/03

Date Received: 12/03/03 Percent Solids: 74.9

Project: RFP# 4229

Analyte		Result	RL	Units	DF	Analyzed	Ву	Method
								•
Solids, Percent		74.9		%	1	12/04/03	TC	EPA 160.3 M

I Toject.	RFP# 4229			•		•
Project:						
Method:		SW846 3550B		Percent Solids:	86.1	
Matrix:	SO - Soil		, •	Date Received:	12/03/03	
Lab Sample ID:	N54554-40			Date Sampled:	12/02/03	
Client Sample ID:	CDFF65D				•	

,		File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
	Run #1	EF47981.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
	Run #2							

	•	Initial Weight	Final Volume	-			 	
Run		30.3 g	10.0 ml		•			
Run	ı #2							

PCB List

Compound	Result	RL	MDL	Units	Q
Aroclor 1016	ND	19	2.7	ug/kg	
Aroclor 1221	ND	19	5.8	,	
Aroclor 1232	. ND	19	4.4		
Aroclor 1242	ND	19	3.3		
Aroclor 1248	ND	19	2.9		
Aroclór 1254	112	19	1.9		
Aroclor 1260	ND	19	3.4	ug/kg	
Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
Tetrachloro-m-xylene	90%		26-14	42%	
•	92%				
Decachlorobiphenyl	94%	8 8 8 .			
Decachlorobiphenyl	103%				
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 112 Aroclor 1260 ND Surrogate Recoveries Run# 1 Tetrachloro-m-xylene 90% Tetrachloro-m-xylene 92% Decachlorobiphenyl 94%	Aroclor 1016 ND 19 Aroclor 1221 ND 19 Aroclor 1232 ND 19 Aroclor 1242 ND 19 Aroclor 1248 ND 19 Aroclor 1254 112 19 Aroclor 1260 ND 19 Surrogate Recoveries Run# 1 Run# 2 Tetrachloro-m-xylene 90% Tetrachloro-m-xylene 92% Decachlorobiphenyl 94%	Aroclor 1016 ND 19 2.7 Aroclor 1221 ND 19 5.8 Aroclor 1232 ND 19 4.4 Aroclor 1242 ND 19 3.3 Aroclor 1248 ND 19 2.9 Aroclor 1254 112 19 1.9 Aroclor 1260 ND 19 3.4 Surrogate Recoveries Run# 1 Run# 2 Limit Tetrachloro-m-xylene 90% 26-14 Tetrachloro-m-xylene 92% 26-14 Decachlorobiphenyl 94% 32-15	Aroclor 1016 ND 19 2.7 ug/kg Aroclor 1221 ND 19 5.8 ug/kg Aroclor 1232 ND 19 4.4 ug/kg Aroclor 1242 ND 19 3.3 ug/kg Aroclor 1248 ND 19 2.9 ug/kg Aroclor 1254 112 19 1.9 ug/kg Aroclor 1260 ND 19 3.4 ug/kg Surrogate Recoveries Run# 1 Run# 2 Limits Tetrachloro-m-xylene 90% 26-142% Tetrachloro-m-xylene 92% 26-142% Decachlorobiphenyl 94% 32-153%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: CDFF65D

Lab Sample ID: Matrix:

N54554-40 SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 86.1

Project: RFP# 4229

General Chemistry

Analyte Result Units DF · Analyzed By Method Solids, Percent 86.1 12/04/03 TC EPA 160.3 M 11141-16-5 Aroclor 1232

53469-21-9 Aroclor 1242

12672-29-6 Aroclor 1248

11097-69-1 Aroclor 1254

		Repo	Page 1 of 1				
Client Sample Lab Sample II Matrix: Method: Project:	ID: CDFF39A D: N54554-41 SO - Soil SW846 8082 RFP# 4229	SW846 3550B		Date Sample Date Receive Percent Solid	d: 12/03/03		
1_	e ID DF 47982.D 1	Analyzed 12/10/03	By OYA	Prep Date 12/03/03	Prep Batch OP15535	Analytical B GEF2410	atch
- I	tial Weight Fina 2 g 10.0	l Volume ml					
PCB List CAS No. Co	ompound	Result	RL	MDL Units	Q		
12674-11-2 Ai 11104-28-2 Ai	roclor 1016 roclor 1221	ND ND	21 21	3.0 ug/kg 6.4 ug/kg			•

21

21

21

21

4.8

3.6

: 3.2

2.1

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg ..

11096-82-5	Aroclor 1260	182	21	3.7 ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%	•	26-142%
2051-24-3	Decachlorobiphenyl	106%		32-153%
2051-24-3	Decachlorobiphenyl	99%	ta in a	32-153%

ND

ND

ND

296

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated metallank

Page 1 of 1

Client Sample ID: CDFF39A

Lab Sample ID: N54554-41 Matrix:

SO - Soil

Date Sampled: 12/02/03 **Date Received:** 12/03/03

Project: RFP# 4229 Percent Solids: 78.9

Analyte	Result RL	Units DF	Analyzed By	Method
Solids, Percent	78.9	% 1	12/04/03 тс	EPA 160.3 M

Client Sample ID: CDFF38A

Analytical Batch

GAB2138

Lab Sampl Matrix: Method: Project:	e ID: N54554-42 SO - Soil SW846 808: RFP# 4229	2 SW8	46 3550 B		Date :	Sampled Received Int Solid	1: 12/03	
D. 41	File ID DI	F	Analyzed	Ву	Prep D		Prep Ba	
Run #1 Run #2	AB43578.D 1		12/06/03	OYA	12/04/0)3	OP1553	9
Run #1 Run #2	_	nal Vol .0 ml	ume					
PCB List					•			
CAS No.	Compound		Result	RL	MDL	Units	Q	
.12674-11-2	Aroclor 1016		ND	24	3.4	ug/kg		
11104-28-2	Aroclor 1221		ND	24	7.2	ug/kg		
11141-16-5	Aroclor 1232		ND	24	5.4	ug/kg		
53469-21-9	Aroclor 1242		ND	24	4.1	ug/kg		•
12672-29-6	Aroclor 1248		ND	24	3.6	ug/kg		
11097-69-1	Aroclor 1254 a		884	24	2.3	ug/kg		
11096-82-5	Aroclor 1260 a		171	24	4.2	ug/kg		
CAS No.	Surrogate Recover	ies	Run#1	Run# 2	Lin	its		: :
877-09-8	Tetrachloro-m-xyler		79%	1000- 1000-	26-1	42%		
877-09-8	Tetrachloro-m-xyler		68%			42%		
2051-24-3	Decachlorobiphenyl		111%	2000 0000 0000 0000 0000	32-1	53%		
2051-24-3	Decachlorobiphenyl	!	103%	## 	32-1	53%	.:	

(a) Report from 1st signal.



ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

J = Indicates an estimated value
B = Indicates analyte found in associated method blank

Client Sample ID: CDFF38A Lab Sample ID:

Matrix:

N54554-42 SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 70.6

Project:

RFP# 4229

General Chemistry

Analyte Result RLUnits DF Analyzed By Method Solids, Percent 70.6 12/04/03 EPA 160.3 M TC.

Client Sample ID: CDFF65C Lab Sample ID: N54554-43 Date Sampled: 12/02/03 Matrix: SO - Soil Date Received: 12/03/03 Method: SW846 8082 SW846 3550B Percent Solids: 82.9

Project: RFP# 4229

•		File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch	
	Run #1	AB43581.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138	
ı	Run #2					*			

	Initial Weight	Final Volume	
Run #1	30.5 g	10.0 ml	
Run #2			

CAS No.	Compound	Result	RL	MDL Units Q
12674-11-2	Aroclor 1016	ND	20	2.8 ug/kg
11104-28-2	Aroclor 1221	ND	20	6.0 ug/kg
11141-16-5	Aroclor 1232	ND	20	4.5 ug/kg
53469-21-9	Aroclor 1242	· ND	20	3.4 ug/kg
12672-29-6	Aroclor 1248	ND	20	3.0 ug/kg
11097-69-1	Aroclor 1254 a	142	20	1.9 ug/kg (5)
11096-82-5	Aroclor 1260 b	44.6	20	3.5 ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-142%
877-09-8	Tetrachloro-m-xylene	71%		26-142%
2051-24-3	Decachlorobiphenyl	102%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%
4.8.			· · · · · ·	

(a) Reported from 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

(b) Report from 1st signal.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Page 1 of 1

Client Sample ID: CDFF65C Lab Sample ID: N54554-43 Matrix: SO - Soil

RFP# 4229 Project:

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 82.9

Analyte		Result	RL	Units	DF	Analyzed	Ву	Method
	.*			,				
Solids, Percent		82.9		%	1	12/05/03	TC	ASTM 4643-00

Client San Lab Sam Matrix: Method: Project:		N54554-44 SO - Soil	SW846 3550B		Date Samp Date Recei Percent Sol	ved: 12/03/03	
Run #1 Run #2	File ID AB43582	.D I	Analyzed 12/06/03	By OYA	Prep Date 12/04/03	Prep Batch OP15539	Analytical Batch GAB2138
Run #1 Run #2	Initial W 30.1 g	eight Final	l Volume ml		4		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	•
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	•
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254 a	293	20	2.0	ug/kg	(3)
11096-82-5	Aroclor 1260 a	79.2	20	3.6	ug/kg	٠
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	uits	•
877-09-8	Tetrachloro-m-xylene	84%		26-1	42%	
877-09-8	Tetrachloro-m-xylene	81%			42%	
2051-24-3	Decachlorobiphenyl	103%	01 03 03.		53%	•
2051-24-3	Decachlorobiphenyl	93%	·		53%	
		 A second delegation of the second				•

(a) Report from 1st signal.

CIT

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated methoralisms

Page 1 of 1

Client Sample ID: CDFF65B Lab Sample ID: N54554-44

Matrix:

SO - Soil

Date Sampled: 12/02/03 Date Received: 12/03/03

Percent Solids: 82.2

Project:

RFP# 4229

Analyte	Result RL	Units	DF /	Analyzed	Ву	Method
Solids, Percent	82.2	%	i i	12/04/03	TC	EPA 160.3 M